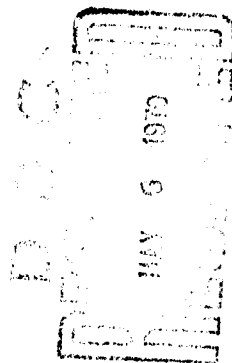
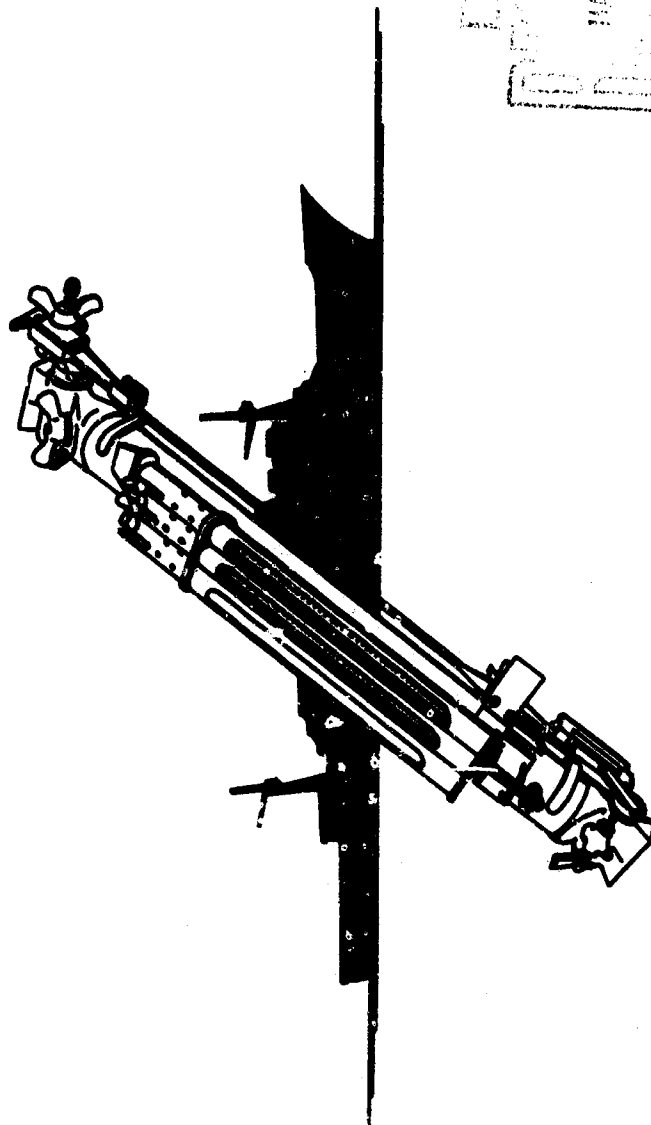


AD704861

NATIONAL OCEANOGRAPHIC DATA CENTER



**REFERENCE SOURCES
FOR
OCEANOGRAPHIC STATION DATA**

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**PUBLICATION C-1
REVISED 1969**

463

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**REFERENCE SOURCES
FOR
OCEANOGRAPHIC STATION DATA**

**PUBLICATION C-1
(REVISED 1969)**

ACKNOWLEDGMENT

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INTRODUCTION

The oceanographic station data archives of the National Oceanographic Data Center (NODC) form a unique collection which is probably the largest of its kind in the world. These archives have been established to make marine data available to the scientific community and the general public. Nearly 80 percent of the stations in the NODC archives are of foreign origin, many of them obtained in exchange for processing services. The remaining domestic (U. S.) collection has been acquired from Government sources, academic institutions, and private organizations.

These data may be obtained in the form of machine listings, punched cards, or magnetic tape, sorted either by geographic area or by reference number (source). They include physical-chemical parameters (observed serially against depth) and interpolated, computed values at discrete depths.

This Catalog, which supersedes NODC Publication C-1 issued in 1965, is intended to inform actual or potential station data users of the sources applied in creating NODC's archives.

The information in this Catalog has been presented in four ways:

1. Numerically, by NODC Reference Number.
2. Alphabetically, by ship's name.
3. Chronologically, by year of observation.
4. Geographically, by Marsden Square.

Further details will be given at the beginning of each section.

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SECTION 1

NUMERICAL REFERENCES

In general, the sources given in this Section are those actually used for the data processed under the respective NODC Reference Number. However, the data were in certain instances adjusted to correspond with later publications or modified after personal communication with the originator. When manuscript or machine-processed data were used as an NODC source, no effort was made to cite subsequent publication (if any) of such data.

Within each reference the information appears as follows:

NODC Reference Number.

Organization or institution originating data, and title (if source is publication).

Format of data or publication reference (if known).

Name of ship(s). Year-day(s)-month(s) of observations.

Project or Expedition Title.

Originator's Cruise Number.

Number of observations (stations)

Source location (library or file).

The NODC Reference Number is made up of:

a. An initial two-digit or alphabetic country code (see Appendix A for list of countries and corresponding codes). The country code reflects the nationality of the agency sponsoring or operating a vessel for a particular cruise. If two countries were sponsoring a particular cruise, the NODC arbitrarily assigned one country code, preferably that of major sponsor, if possible to determine.

References are given numerically according to the country code assignments. Letter-code assignments follow the numerical arrangements.

Countries originating data, therefore, do not appear in alphabetical order. Appendix A, an alphabetical listing of countries and their respective codes, is furnished to guide the user in searching for references by country.

b. An NODC cruise number, an arbitrary three- or four-digit number (three-digit numbers are sometimes introduced by a hyphen) assigned by NODC to the source document(s) from which the data were coded. NODC cruise numbers in the "8000" block have been reserved, at present, for ocean station data obtained by a continuously recording STD instrument or for a mix of Nansen cast and STD data.

Organization or institution originating data, and title (if source is a publication)

If the organization or institution is unknown, the name of the person who contributed or reported the data is given, if available. If two countries sponsored a cruise, both institutions are entered; but the country code for the numerical reference is assigned by NODC as mentioned above. Following the organization or institution is the title of the published source.

Format of data or publication reference (if known)

These sources, which are obtained from various government agencies, oceanographic institutions, and universities, both in the United States and abroad, appear in various formats including publications and unpublished materials such as listings, coding forms, punched cards, or magnetic tape. Many sources are obtained through exchange programs established with other national and international data centers and organizations. In some cases, the data are composite from more than one source.

Name of ship(s)

Ships' names or names of platforms or stations are provided whenever known. For some old data reflecting the work of many ships, no attempt was made to identify the ships or to correlate them with their respective data. Indented under the ship's name may appear Project or Expedition Title and Originator's Cruise Number, if known.

Year-day(s)-month(s) of observations

These dates represent only that period for which station data have actually been processed and archived by NODC; they are not intended to signify the duration of a cruise or expedition. When data from two or more ships or platforms are included for a single reference, the dates for each ship's observations are given separately. Occasionally, only the year appears; at other times, only the year and months are noted.

Number of observations (stations)

The number of observations (stations) refers to those which have been placed on magnetic tape by NODC. In some sources, the introduction discusses more observations than are actually published; hence, there may be a discrepancy between the expected number of observations and those actually available.

Source location (library or file)

One or more of the following source locations are used to indicate where the source may be located:

- a. NODC files: Copies of most of the sources used to compile the station data tape file are available on microfilm at NODC. The file number is the same as the Reference Number.
- b. WDC-A files: Many data have been taken from the files of World Data Center A (WDC-A). Oceanography, which is collocated with the NODC. File numbers used in WDC-A are also included.
- c. DNO: The library of the Naval Oceanographic Office was used extensively for gathering data. File numbers or serial references used in that library are included.

060004 - Continued

06-001	Deutsches Hydrographisches Institut, Hamburg.				
	Punched Cards ICES Format				DNO Q115 METEOR bd.IV, t.2 & bd. IX
	ANTON DOHRN (Germ.)	1957: 16 Jan.-02 Dec.			
487		NODC Files			
06-002	Deutsches Hydrographisches Institut, Hamburg.				
	Punched Cards ICES Format				
	GAUSS HERMANN WATTENBERG	1957: 29 Apr.-11 Oct. 1957: 29 Apr.-20 Dec.			
39		NODC Forms			
06-003	Deutsches Hydrographisches Institut, Hamburg.				
	Punched Cards ICES Format				
	GAUSS	1960: 30 May-17 Jun.			
114		NODC Files			
06-004	Deutsche Atlantische Expedition auf dem Vermessungs- und Forschungsschiff "METEOR", 1925-27. "Wissenschaftliche Ergebnisse." 1932.				
	bd. IV, 2. teil & bd. IX				
	METEOR	1925: 06 Jun. to			
	METEOR	1926: to			
	METEOR	1927: 05 May			
06-005	Deutsches Hydrographisches Institut, Hamburg.				
	Punched Cards ICES Format				
	ANTON DOHRN (Germ.)	1960: 30 May-18 Jun.			
158		NODC Files			
06-006	University of Berlin, Institut fur Meereskunde. Manuscript Data				
	PROFESSOR ALBRECHT PENCK	1964: 22 Apr.-03 Jul.			
75		WDC-A Files 115.1 A-1			
06-007	University of Kiel, Institut fur Meereskunde.				
	NODC Coding Forms				
	METEOR	1964: 01 Nov. to			
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"				
	METEOR	1965: 13 Mar.			
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"				
149		WDC-A Files 114.2 A-1			

1914: C2-11 Jul.

NODC Files

060043 - Continued

060043	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.	45	NODC Files
060044	Annees 1935 to 1937 (3 v.)		
	AUGUSTA	1935: Jan.-Dec.	
	AUGUSTA	1936: Jan.-Dec.	
	METEOR	1935: Mar.	
	MAKRELE	1937: Jan.-Dec.	
	POSEIDON	1935: Jan.-Apr.	
	POSEIDON	1936: Feb.-May	
	POSEIDON	1937: Sep.	
	J.H. WILHELM	1937: Oct.	
945		NODC Files	
06-031	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.		
	Annees 1938 to 1939		
	ALTAIR (Germ.)	1938: May-Jul.	
103		NODC Files	
060043	Deutsche Seewarte, Hamburg. "Forschungsreise." 1914.		
	Archiv der Deutschen Seewarte, bd. 37 nr.1		
	MOWE	1911: 17 May-02 Oct.	
	MOWE	1912: 13 Apr.-07 Dec.	
	Archiv der Deutschen Seewarte, bd. 39 nr.1		
	DEUTSCHLAND	1911: 15 May to	
	DEUTSCHLAND	1912: 15 Dec.	
81		NODC Files	
060049	Reichs-Marine-Amt. Annalen der Hydrographie und Maritimen Meteorologie. Berlin, 1909.		
	"Forschungsreise III. Band Ozeanographie."		
PLANET		1906: 26 Jan.-11 Oct.	
PLANET		1907: 11 Jan.-31 Apr.	
56		NODC Files	
060138	Deutsche Wissenschaftliche Kommission fur Meeresforschung. "Hydrographische und Planktologische Ergebnisse" & "Hydrographie und oberflachenplankton des Westlichen Berentsmeeres." Berlin, 1927 & 1929.		
	Berichte, N.F., bd. III hft. 3, & bd. IV hft. 5		
	ZEITEN	1926: 15 Aug.-01 Sep.	
	POSEIDON	1926: 28 Jul.-09 Sep.	
	POSEIDON	1927: 02-19 Aug.	

060138 - Continued

181	LC GC1 D4	060213	Deutsche Seewarte, Hamburg. "Annalen der Hydro- graphie und Maritimen Meteorologie." 1936.
06-199	Deutsche Seewarte, Hamburg. "Hydrographische Untersuchungen besonders über den Durchluftungs- zustand in der Ostsee." 1923.	HEFT VI	
Archiv der Deutschen Seewarte, bd. 41 nr.1		POSEIDON	1931: Aug.
SKAGERAK (Germ.)	1922: 10 Jul.-03 Aug.	HUNTE	1931: Aug.
34	DNO GC1 D.S. v.41 no.1	SKAGERAK (Germ.)	1931: Aug.
060210		84	DNO VK588 A6 1936
Deutsche Seewarte, Hamburg. "Die Ozeanographis- chen Verhältnisse bis zur Warmen Zwischenschicht an der Antarktischen Eisgrenze." 1941.		060215	Deutsche Seewarte, Hamburg. "Annalen der Hydro- graphie und Maritimen Meteorologie." 1940.
Archiv der Deutschen Seewarte, bd. 61 nr.5		vol. 68	
JAN WELLEM	1936: 31 Oct. to	ALTAIR	1938: 16-20 Jun.
JAN WELLEM	1937: 03 Apr.	88	DNO VK588 A6 1940
68	DNO GC1 D.S. v.61 no.5	060216	Deutsche Seewarte, Hamburg. "Annalen der Hydro- graphie und Maritimen Meteorologie." 1943.
060212	University of Berlin, Institut für Meereskunde. "Ozeanographischen Arbeiten." 1936.	vol. 71, HEFT IV and VI	
Veröffentlichungen, N.F. A, hft.32		PANTHER	1924: 12-25 Sep.
METEOR	1929: 13-26 Aug.	11	DNO VK588 A6 1943
METEOR	1930: 31 Jul.-15 Aug.	060217	Deutsche Seewarte, Hamburg. "Annalen der Hydro- graphie und Maritimen Meteorologie." 1944.
METEOR	1933: 21 Mar.-03 Apr.	Publication: vol. 72	
87	DNO GC1 B5A no.32	METEOR	1938: 12 Feb.-28 Apr.

060217 - Continued

122 DNO VK588 A6 1944

06-350 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

Annees 1938 to 1939

HEINRICH BAUMGARTEN 1938: Mar -Sep.
 MAKRELE 1938: May
 MAKRELE 1939: May-Jun.
 POSEIDON 1938: Feb.-Nov.
 TRITON 1939: Aug.

434 NODC Files

06-534 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.

Annee 1949

ALICE FREYMAN 1949: Jul.-Aug.
 PAUL BENEKE 1949: Sep.

46 NODC Files

06-535 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.

Annee 1950

SUDFALL 1950: Jan.-Oct.
 UTHORN 1950: Mar.-Aug.

06-535 - Continued

GAUSS 1950: Aug.

404 NODC Files

06-700 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Annee 1951

GAUSS 1951: Jan.-Dec.
 SUDFALL 1951: May-Aug.

401 DNO GC1 162 1951

06-701 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1953.

Annee 1952

GAUSS 1952: Feb.-Aug.
 SUDFALL 1952: Jan.-Aug.

217 DNO GC1 162 1952

06-720 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1957.

Annee 1953

GAUSS 1953: Mar.-Aug.
 SUDFALL 1953: Jan.-Dec.

080002 - Continued

"CAMPANA ANTARTICA
1961/1962"
GENERAL SAN MARTIN
"CAMPANA ANTARTICA
1961/1962"

6

1962: Jan.

NODC Files

080003

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"TRIDENTE II"

56

1962: 17 Nov.-12 Dec.

NODC Files

080004

Secretaria de Marina, Servicio de Hidrografia
Naval. "Resultados Preliminares". 1961.

Publication H.628

CAPITAN CANEPA
"VENA-CANEPA I"

12

1960: 25 Jun.-12 Jul.

NODC Files

08-005

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"CONVERGENCIA"

1961: 01 Mar.-11 Nov.

08-005 - Continued

"SAN JORGE"

22

NODC Files

08-006

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"TRIDENTE IV"

1963: 23 May-08 Jun.

46

NODC Files

08-007

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"TRIDENTE II"

1964: 25 Mar.-04 Apr.

23

NODC Files

08-008

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"PRODUCTIVIDAD II"

1963: 13 Nov.-01 Dec.

37

NODC Files

08-009	Secretaria de Marina, Servicio de Hidrografia Naval. "Trabajos Oceanograficos Realizados". 1961.	08-012	Secretaria de Marina, Servicio de Hidrografia Naval.
Publication H.629		NODC Coding Forms	
GENERAL SAN MARTIN	1961: 04-18 Jan.	GENERAL ZAPIOLA	1963: 25 Aug.-29 Sep.
"CAMPANA ANTARTICA		"PRODUCTIVIDAD I"	
1960/1961"		44	NODC Files
9	NODC Files	08-013	
08-010	Secretaria de Marina, Servicio de Hidrografia Naval. "Trabajos Oceanograficos Realizados". 1961.	Secretaria de Marina, Servicio de Hidrografia Naval and Texas A&M University, Dept. of Oceanography. "Study of Primary Productivity in Drake Passage." 1963.	
Publication H.623		Semi-Annual Report, Texas A&M Project no.336	
GENERAL SAN MARTIN	1960: 10-21 Jan.	CAPITAN CANEPA	1963: 17 Feb.-18 Mar.
"CAMPANA ANTARTICA		"TRIDENTE III"	
1959/1960"		46	NODC Files
6	NODC Files	08-014	
08-011	Secretaria de Marina, Servicio de Hidrografia Naval.	Secretaria de Marina, Servicio de Hidrografia Naval.	
NODC Coding Forms		NODC Coding Forms	
CAPITAN CANEPA	1960: 24-27 Mar.	CAPITAN CANEPA	1965: 11-15 Aug.
"IONOSFERA"		"COSETRI I"	
2	NODC Files	15	NODC Files
08-029		Secretaria de Marina, Servicio de Hidrografia Naval.	

08-029 - Continued

NODC Coding Forms

GENERAL SAN MARTIN
"CAMPANA ANTARTICA
1961/1965"

1965: 03 Jan.-02 Mar.

50

WDC-A 101.1 B-8

08-030

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"PRODUCTIVIDAD III"

1964: 23 May-07 Jul.

69

WDC-A 101.1 A-18

08-032

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"PRODUCTIVIDAD IV"

1964: 20 Oct.-17 Dec.

68

WDC-A 101.1 A-19

08-033

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA
"DRAKE"

1965: 01-30 Apr.

08-033 - Continued

"TRIDENTE"

27

WDC-A 101.1 A-20
WDC-A 101.1 A-23

08-034

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

COMODORO AUGUSTO LASERRE
"TRIDENTE I"

1963: 06-11 Dec.

22

NODC Files

08-035

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

GENERAL SAN MARTIN
"CAMPANA ANTARTICA
1965/1966"

1965: 31 Dec. to

GENERAL SAN MARTIN
"CAMPANA ANTARTICA
1965/1966"

1966: 01 Feb.

18

WDC-A 101.1 B-10

08-041

Secretaria de Marina, Servicio de Hidrografia
Naval.

NODC Coding Forms

CAPITAN CANEPA

1967: 21 Feb.-16 Mar.

08-041 - Continued

"PESQUERIA III"

74

NODC Files

080237

Secretaria de Marina, Servicio de Hidrografia Naval. "Analisis de Muestras de Agua de Mar." 1931.

Publication

SAN JUAN
SAN JUAN
ALFEREZ MACKINLAY
SAN LUIS

1928: 20-24 Aug.
1929: 15 Mar.-19 Apr.
1928: 29 Nov.-25 Dec.
1928: 14 Nov.-14 Dec.

44

NODC Files

080691

Secretaria de Marina, Servicio de Hidrografia Naval. "Resultados Preliminares." 1959.

Publication H.607

CAPITAN CANEPA
"CUENCA"

1959: 15 Mar.-19 Apr.

25

NODC Files

080692

Secretaria de Marina, Servicio de Hidrografia Naval. "Resultados Preliminares." 1959.

Publication H.608

CAPITAN CANEPA
"ATLANTICO SUR"

1957: 07 Oct.-23 Dec.

080692 - Continued

41

NODC Files

080693

Secretaria de Marina, Servicio de Hidrografia Naval. "Trabajos Oceanograficos Realizados." 1953.

Publication H.615

GENERAL SAN MARTIN
"CAMPANA ANTARTICA
1957/1958"

1958: 13-29 Jan.

11

NODC Files

080694

Secretaria de Marina, Servicio de Hidrografia Naval. "Resultados Preliminares." 1959.

Publication H.617

CAPITAN CANEPA
"MERIDIANO"

1958: 10 Sep.-05 Oct.

14

NODC Files

080695

Secretaria de Marina, Servicio de Hidrografia Naval. "Trabajos Oceanograficos Realizados." 1959.

Publication H.620

GENERAL SAN MARTIN
"CAMPANA ANTARTICA
1955/1956"

1955: 01 Dec. to

GENERAL SAN MARTIN
"CAMPANA ANTARTICA"

1956: 09 Mar.

080695 - Continued

1955/1956"

35 DMO CG461.A6 1955/56

080696

Secretaria de Marina, Servicio de Hidrografia Naval. "Resultados Preliminares." 1959.

Publication H.613

CAPITAN CANEPA "DRAKE I" 1958: 17 Mar.-07 Apr.

23

NODC Files

080697

Secretaria de Marina, Servicio de Hidrografia Naval.

NODC Coding Forms

GENERAL SAN MARTIN "CAMPANA ANTARTICA" 1958/1955"

15

NODC Files

080698

Secretaria de Marina, Servicio de Hidrografia Naval. "Resultados Preliminares." 1960.

Publication H.614

CAPITAN CANEPA "DRAKE II" 1959: 31 Jul.-23 Aug.

27

NODC Files

080914

Ministerio de Marina, Direccion General de Navegacion e Hidrografia. "Expedicion Argentina al Mar de Weddell." 1955.

Publication

GENERAL SAN MARTIN 1954: 31 Dec.
GENERAL SAN MARTIN 1955: 05 Jan.

2 NODC Files

080936

Secretaria de Marina, Servicio de Hidrografia Naval. "Resultados Preliminares." 1960.

Publication H.606

CAPITAN CANEPA "MALVINAS" 1959: 25 Nov.-07 Dec.

12 NODC Files

08-990

Secretaria de Marina, Servicio de Hidrografia Naval.

NODC Coding Forms

COMODORO AUGUSTO LASERRE "EQUALANT I" 1963: 01 Mar.-16 Apr.

97 NODC FILES

08-991

Secretaria de Marina, Servicio de Hidrografia Naval.

08-991 - Continued

NODC Coding Forms

COMODORC AUGUSTO LASERRE 1963: 04 Aug.-04 Sep.
"EQUALANT II"

68 NODC Files

090001

Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy. 1962.

Oceanographical Cruise Report no.1

DIAMANTINA 1959: 15 Jul.-18 Nov.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 1/59"
"DM 2/59"

53 NODC Files

09-002

Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy. 1962.

Oceanographical Cruise Report no.2

DIAMANTINA 1960: 02 Feb.-22 Mar.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 1/60"

56 NODC Files

09-003

Commonwealth Scientific and Industrial Research

09-003 - Continued

Organization, Division of Fisheries and Oceano-
graphy. 1962.

Oceanographical Cruise Report no.4

DIAMANTINA 1960: 16 Oct.-13 Nov.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 3/60"

20 NODC Files

09-004

Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy. 1963.

Oceanographical Cruise Report no.3

DIAMANTINA 1960: 12 Jul.-24 Sep.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 2/60"

86 NODC Files

09-005

Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy. 1962.

Oceanographical Cruise Report no.5

GASCOYNE 1960: 02 Feb.-04 Mar.
"G 1/60"
"G 2/60"

97 NODC Files

09-006	Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1963.	
	Oceanographical Cruise Report no.6	
	GASCOYNE "G 3/60"	1960: 09 Nov.-02 Dec.
57		NODC Files
09-007	Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1963.	
	Oceanographical Cruise Report no.7	
	DIAMANTINA "INTERNATIONAL INDIAN OCEAN EXPEDITION" "DM 1/61"	1961: 19 Feb.-09 Apr.
16		NODC Files
09-008	Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1963.	
	Oceanographical Cruise Report no.8	
	GASCOYNE "G 1/61"	1961: 12 Jan.-12 Feb.
36		NODC Files
09-009	Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1963.	
	Oceanographical Cruise Report no.9	
	DIAMANTINA "INTERNATIONAL INDIAN OCEAN EXPEDITION" "DM 2/61"	1961: 02 May-09 Jun.
41		NODC Files
09-012	Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography.	
	Originator's Coding Forms	
	GASCOYNE "INTERNATIONAL INDIAN OCEAN EXPEDITION" "G 4/62"	1962: 19 Aug.-15 Sep.
35		NODC Files
09-013	Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography.	
	Originator's Coding Forms	
	DIAMANTINA "INTERNATIONAL INDIAN OCEAN EXPEDITION"	1962: 16 Oct.-12 Nov.

09-013 - Continued

"DM 4/62"

36

NODC Files

09-014

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography.

Originator's Coding Forms

GASCOYNE
"G 1/62"

1962: 11 Jan.-15 Feb.

53

NODC Files

09-029

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1964.

Oceanographical Cruise Report no.15

DIAMANTINA
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 2/62"

1962: 16 Jul.-25 Aug.

49

NODC Files

09-030

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1964.

Oceanographical Cruise Report no.14

09-030 - Continued

DIAMANTINA
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 1/62"

1962: 12 Feb.-23 Mar.

42

NODC Files

09-032

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1964.

Oceanographical Cruise Report no.11

DIAMANTINA
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 3/61"

1961: 20 Jul.-26 Aug.

48

NODC Files

09-033

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography.

Originator's Coding Forms

GASCOYNE
"G 3/61"

1961: 19 Aug.-01 Oct.

27

NODC Files

09-034

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. 1965.

09-034 - Continued

Oceanographical Cruise Report no.21

GASCOYNE 1963: 18 Jan.-16 Feb.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"G 1/63"

31 NODC Files

09-035 Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy. 1967.

Oceanographical Cruise Report no.22

GASCOYNE 1963: 04-08 Mar.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"G 2/63"

40 NODC Files

09-036 Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy. 1965.

Oceanographical Cruise Report no.23

DIAMANTINA 1963: 29 Mar.-27 Apr.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 1/63"

36 NODC Files

09-037

Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy

Originator's Coding Forms

DIAMANTINA 1963: 07 May-02 Jun.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 2/63"

33 NODC Files

09-038

Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy.

Originator's Coding Forms

DIAMANTINA 1963: 10 Jul.-10 Aug.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"DM 3/63"

32 NODC Files

09-039

Commonwealth Scientific and Industrial Research
Organization, Division of Fisheries and Oceano-
graphy. 1966.

Oceanographical Cruise Report no.10

GASCOYNE 1961: 21 Feb.-15 Mar.
"INTERNATIONAL INDIAN

09-039 - Continued

OCEAN EXPEDITION"
"G 2/61"

115

NODC Files

090397

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Hydrological and Planktological Observations." 1951.

Oceanographical Station List, vol. 1

WARREEN
WARREEN

1938: 25 May to
1939: 28 Dec.

200

NODC Files

090398

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Hydrological and Planktological Observations." 1951.

Oceanographical Station List, vol. 2

WARREEN
WARREEN
WARREEN

1940: 09 Jan.-05 Dec.
1941: 01 Jan.-21 Dec.
1942: 02 Jan.-19 Jul.

247

NODC Files

090399

Commonwealth Scientific and Industrial Organization, Division of Fisheries and Oceanography. "Hydrological and Planktological Observations." 1951.

090399 - Continued

Oceanographical Station List, vol. 3

WARREEN
WARREEN
WARREEN
WARREEN

1947: 09-10 Nov.
1948: 15 Apr.-12 Dec.
1949: 06 Apr.-10 Nov.
1950: 23 Feb.-26 Oct.

96 NODC Files

090594

Commonwealth Scientific and Industrial Research Organization Division of Fisheries and Oceanography. "Onshore Hydrological Investigation in Eastern Australia." 1951.

Oceanographical Station List, vol. 4

WARREEN
WARREEN
WARREEN
WARREEN
WARREEN
WARREEN
WARREEN

1943: to
1944: to
1945: to
1946: to
1947: to
1948: to
1949: to
1950: to

571

NODC Files

090597

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Oceanic Investigations in Eastern Australia." 1960.

Oceanographical Station List, vol. 43

QUEENBOROUGH
WARREGO

1958: 24 Mar.-24 Apr.
1958: 19-24 Apr.

090597 - Continued

30

NODC Files

090742

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Hydrological Investigations at Port Hacking, New South Wales." 1959.

Oceanographical Station List vol. 34

JAY BEE

1957: Jan.-Dec.

102

NODC Files

090744

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Hydrological Investigations at Eden, New South Wales." 1959.

Oceanographical Station List, vol. 35

MARELDA

1957: Jan.-Dec.

117

NODC Files

090745

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Hydrological Investigations. CRUISE I - XVI." 1959.

Oceanographical Station List, vol. 37

DERWENT HUNTER

1956: 31 Dec. to

DERWENT HUNTER

1957: 13 Dec.

WARREGO

1957: 22 May

090745 - Continued

214

NODC Files

090785

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Onshore Hydrological Investigations in Eastern and South-Western Australia." 2 v., 1953-1954.

Oceanographical Station List, vol. 17 & 18

DERWENT HUNTER

1952: 29 Oct.-04 Dec.

DERWENT HUNTER

1953: 10 Feb.-21 Nov.

STANLEY FOWLER

1952: 03 Mar.-03 Apr.

DISCOVERY II

1950: 05-19 Oct.

DISCOVERY II

1951: 08-18 Jan.

BARCOO

1953: 08 Jan.-27 Nov.

WARREGO

1953: 24 Sep.-26 Nov.

SHORE STATIONS

1952: Jan.-Dec.

SHORE STATIONS

1953: Jan.-Dec.

456

NODC Files

090793

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Hydrological Investigations in the New South Wales Tuna Fishing Area." 1959.

Oceanographical Station List, vol. 38

MARELDA

1958: 07 Jan.-Dec.

334

NODC Files

090798

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography.

090798 - Continued

graphy. "Onshore and Oceanic Hydrological Investigations in Eastern and South-Western Australia." 1957.

Oceanographical Station List, vol. 27

DERWENT HUNTER
SHORE STATIONS
1955: 07 Apr.-14 Dec.
1955: Jan.-Dec.

359
NODC Files

090843

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Hydrographical Investigations in South-Eastern Australia." 1960.

Oceanographical Station List, vol. 40

SHORE STATIONS
1958

123
NODC Files

090844

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Oceanic Investigations in Eastern Australian Waters." 1960.

Oceanographical Station List, vol. 41

DERWENT HUNTER
1958: 03 Jan.-16 Dec.

166
NODC Files

090845

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Investigations at Port Hacking, New South Wales." 1960.

090845 - Continued

graphy. "Coastal Investigations at Port Hacking, New South Wales." 1960.

Oceanographical Station List, vol. 42

JAY BEE
SHORE STATIONS
1958: 07 Jan.-31 Dec.
1958: Jan.-Dec.

90
NODC Files

090880

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Hydrological Investigations in Eastern Australia." 1960.

Oceanographical Station List, vol. 45

SHORE STATIONS
1959: 07 Mar.-18 Dec.

89
NODC Files

090890

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Onshore Hydrological Investigations in Eastern and South-Western Australia." 1953.

Oceanographical Station List, vol. 14

SHORE STATIONS
1951: 08 Jan.-13 Dec.

158
NODC Files

090891

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Hydrological Investigations in

090891 - Continued

Eastern and South-Western Australia." 1958.

Oceanographical Station List, vol. 33

SHORE STATIONS 1957: 08 Jan.-31 Dec.

105 NODC Files

090892

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Onshore Hydrological Investigations in Eastern and South-Western Australia." 1956.

Oceanographical Station List, vol. 24

DERWENT HUNTER 1954: 31 Jan.-14 Dec.

WARREGO 1954: 03 Mar.

SHORE STATIONS 1954: Jan.-Dec.

299

NODC Files

090893

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Onshore and Oceanic Hydrological Investigations in Eastern and South-Western Australia." 1957.

Oceanographical Station List, vol. 30

DERWENT HUNTER 1956: 05 Sep.-23 Oct.

SHORE STATIONS 1956: Jan.-Dec.

247

NODC Files

090894

Commonwealth Scientific and Industrial Research

090894 - Continued

Organization, Division of Fisheries and Oceanography. "Coastal Hydrological Investigations in the New South Wales Tuna Fishing Area." 1961.

Oceanographical Station List, vol. 46

MARELDA 1959: 08 Jan.-21 Dec.
SHORE STATIONS 1959: Jan.-Dec.

312

NODC Files

090895

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Coastal Investigations at Port Hacking, New South Wales." 1961.

Oceanographical Station List, vol. 47

JAY BEE 1959: 07 Jan.-29 Dec.

SHORE STATIONS

92

NODC Files

090923

Commonwealth Scientific and Industrial Research Organization, Division of Fisheries and Oceanography. "Oceanic Investigations in Eastern Australian Waters." 1961.

Oceanographical Station List, vol. 48

DERWENT HUNTER 1959: 04 Feb.-09 Dec.

82

NODC Files

10-228

Commission fur Erforschung des Ostlichen Mit-

10-228 - Continued

telmeeres. "Physikalische Untersuchungen."
Wien, 1893.

Berichte, Ser. 2

POLA

1892: 19 Aug.-11 Oct.

76

DNO Reference

11-001

Institut d'Etudes Maritimes, Ostend.

Punched Cards ICES Format

HINDERS

1957: Jan.-Aug.

HINDERS

1958: Sep.-Dec.

HINDERS

1959: Jan.-Jul.

95

NODC Files

11-002

Institut d'Etudes Maritimes, Ostend.

Punched Cards ICES Format

HINDERS

1960: Mar.-Dec.

45

NODC Files

110003

Duc d'Orleans Croisiere Oceanographique.
"Resultats Scientifique." 1907.

Publication

BELGICA

1905: 10 Jun.-16 Aug.

49

DNO Q115 BELGICA 1905

110024

International Council for the Exploration of the
Seas. "Bulletin Hydrographique." Copenhagen,
1915.

Annees 1913 to 1914

VILLE D'ANVERS

1913: 26 Aug.-13 Nov.

18

DNO GC1 I62 1913-1914

110026

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1931.

Annee 1930

UNKNOWN

1930: Nov.-Dec.

11

NODC Files

110027

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1933-35.

Annees 1932 to 1934 (3 v.)

WEST-HINDER

1932: Jun.-Dec.

WEST-HINDER

1933: Jul.-Dec.

WEST-HINDER

1934: Jan.-Dec.

ZINNIA

1932: Oct.-Dec.

ZINNIA

1933: Jun.-Dec.

ZINNIA

1934: Jan.-Dec.

VICTOIRE

1933: Feb.-Apr.

VICTOIRE

1934: Jan.-Apr.

110027 - Continued

221	NODC Files
110028	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.
Année 1935 to 1937 (3 v.)	
WEST-HINDER	1935: Jan.-Oct
WEST-HINDER	1936: Jan.-Dec.
WEST-HINDER	1937: Jan.-Dec.
ZINNIA	1935: Jan.-Dec.
ZINNIA	1936: Jan.-Dec.
ZINNIA	1937: Jan.-Dec.
227	NODC Files
11-045	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1926.
Année 1925	
WEST-HINDER	1925: Dec.
43	NODC Files
11-350	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.
Année 1938 to 1939	
WEST-HINDER	1938: Dec.
ZINNIA	1938: Nov.-Dec.

11-350 - Continued

58	NODC Files
11-700	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.
Année 1951	
VICTOR BILLET	1951: Nov.-Dec.
20	DNO GC1 I62 1951
11-701	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1953.
Année 1952	
VICTOR BILLET	1952: Nov.-Dec.
38	DNO GC1 I62 1952
11-720	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1957.
Année 1953	
UNKNOWN	1953: Nov.-Dec.
25	NODC Files
11-824	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen,

11-824 - Continued

1959.

Annee 1954

UNKNOWN

38

1954: Jan.-Dec.

NODC Files

11-846

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1960.

Annee 1955

UNKNOWN

60

1955: Nov.-Dec.

NODC Files

11-999

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1962.

Annee 1956

HINDERS

50

1956: Nov.-Dec.

NODC Files

140001

Marinha do Brasil, Diretoria de Hidrografia e Navegacao. "Ano Geofisico Internacional." 1957.

Publication DG-06-II-V & VI

ALMIRANTE SALDANHA

"CRUISE II"

1957: 16 Feb.-04 Dec.

140001 - Continued

"CRUISE III"

"CRUISE IV"

"CRUISE V"

"CRUISE VI"

88

NODC Files & WDC-A Files
104.1 A-1 & A-2

140002

Marinha do Brazil, Diretoria de Hidrografia e Navegacao. "Ano Geofisico Internacional." 1958 and 1959.

Publication DG-06-VII and DG-06-VIII

ALMIRANTE SALDANHA

"CRUISE VII"

"CRUISE VIII"

"IGU 1958"

1958: 02 Apr.-31 Dec.

79

WDC-A Files 104.1 A-3 &
104.1 A-4

140003

Marinha do Brasil, Diretoria de Hidrografia e Navegacao. "Levantamento Oceanografica da Costa Nordeste." 1960.

Publication DG-06-IX

ALMIRANTE SALDANHA

"CRUISE IX"

1959: 16 Aug.-16 Oct.

42

WDC-A Files 104.1 A-5

140004

Marinha do Brasil, Diretoria de Hidrografia e Navegacao. "Estudo das Condições Oceanograficas

140004 - Continued

sobre a Plataforma Continental, entre Cabo-Frio e Vitoria." 1960.

Publication DG-06-X

ALMIRANTE SALDANHA
"CRUISE X"

1960: 26 Apr.-14 May

84

WDC-A Files 104.1 A-6

Marinha do Brasil, Diretoria de Hidrografia e Navegacao. "Estudo dos Condicoes Oceanograficas na Regiao Profunda a Nordeste de Natal, Estado do Rio Grande do Norte." 1960.

Publication DC-06-XI

ALMIRANTE SALDANHA
"CRUISE XI"

1960: 12-21 Sep.

18

WDC-A Files 104.1 A-7

14-005
"Observacoes Oceanograficas."

Manuscript Data

NOT GIVEN

1957: 07-31 Mar.

23

NODC FILES

14-006

Marinha do Brasil, Diretoria de Hidrografia e Navegacao. "Study of the Oceanographic Conditions between Rio de Janeiro and River Plate." 1963.

Publication

14-006 - Continued

BAEPENDI
"TRIDENTE I"

1962: 14 Aug.-14 Sep.

82

NODC Files

14-007

Marinha do Brasil, Diretoria de Hidrografia e Navegacao.

Originator's Coding Forms

ALMIRANTE SALDANHA
"CRUISE XXIX"

1966: 17-27 Jun.

75

NODC Files

140498

Universidade de Sao Paulo, Instituto Oceanografico.

Originator's Coding Forms

IGARATY

1954: 26-28 Jun.

9

NODC Files

140836

Universidade de Sao Paulo, Instituto Oceanografico. "Relatorio e Resultados Fisico-Quimicos de tres Cruzeiros Oceanograficos." 1956.

Contribuicoes Avulsas do Instituto Oceanografia Fisica, no. 1

SOLIMONES

1956: 26 Feb.-07 Mar.,
31 Oct.-16 Nov.

IGUATEMI

1956: 14-18 Jun.

140836 - Continued

14-990	Universidade de Sao Paulo, Instituto Oceanografico.	NODC Files	18-001	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.
				Punched Cards. 1963 Data Record Series no.2
	NODC Coding Forms			ST. CATHARINES 1963: 15 Jan.-26 Feb.
	BERTIOGA	1963: 20 Feb.-23 Mar.		"CODC CRUISE 02-63-001"
	"EQUALANT I"			"PAPA 63-1"
			23	NODC Files
			18-002	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.
				Punched Cards. 1963 Data Record Series no.3
	NODC Coding Forms			ST. CATHARINES 1963: 10 Apr.-27 May
	BAEPENDI	1963: 15 Feb.-21 Mar.		"CODC CRUISE 02-63-002"
	"EQUALANT I"			"PAPA 63-2"
			31	NODC Files
			18-003	Fisheries Research Board, Arctic Unit, Montreal.
				Punched Cards. 1963 Data Record Series no.4
	NODC Coding Forms			LAND BASE 1962: 28 Jun.-14 Aug.
	BRACUI	1963: 29 Aug.-25 Sep.		"CODC CRUISE 363"
	"EQUALANT II"			
	"CRUISE 189"		7	NODC Files
			18-004	Fisheries Research Board, Biological Station, St. John's, Newfoundland.

18-004 - Continued

Punched Cards

INVESTIGATOR II
"CODC CRUISE 324"
"CRUISE 004"

37

NODC Files

1962: 24 Jul.-02 Aug.

18-005

Fisheries Research Board, Biological Station,
St. John's, Newfoundland

Punched Cards. 1963 Data Record Series no.1

INVESTIGATOR II

"CRUISE 005"
"CODC CRUISE 360"

47

NODC Files

18-006

Fisheries Research Board, Arctic Unit, Montreal.

Punched Cards. 1963 Data Record Series no.4

LAND BASE

"CODC CRUISE 364"

1962: Jul.-Aug.

17

NODC Files

18-007

Fisheries Research Board, Arctic Unit, Montreal.

Punched Cards. 1963 Data Record Series no.4

LAND BASE

"CODC CRUISE 365"

1962: Jul.-Aug.

18-007 - Continued

4

NODC Files

18-008

Fisheries Research Board, Arctic Unit, Montreal.

Punched Cards. 1963 Data Record Series no.4

LAND BASE

"CODC CRUISE 366"

1962: Jun.-Aug.

13

NODC Files

18-009

Fisheries Research Board, Arctic Unit, Montreal.

Punched Cards. 1963 Data Record Series no.4

LAND BASE

"CODC CRUISE 367"

1962: Aug.-Sep.

3

NODC Files

18-010

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dalhousie University, Halifax, N.S.

Punched Cards

SACKVILLE

"CODC CRUISE 01-63-002"
"S-70"

1963: 03-06 Mar.

8

NODC Files

18-011

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dept. of Mines

18-011 - Continued

and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.

Punched Cards. 1964 Data Record Series no.11

SACKVILLE
"CODC CRUISE 10-63-002"
"S-71"
1963: 16-27 Apr.

42 NODC Files

18-012 Fisheries Research Board, Arctic Unit, Montreal.

Punched Cards. 1963 Data Record Series no.5

SALVELINUS
"CODC CRUISE 377"
1962: 16 Jul.-29 Aug.

15 NODC Files

18-013

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Bedford Institute of Oceanography, Dartmouth, N.S.

Punched Cards. 1964 Data Record Series no.14

SACKVILLE
"CODC CRUISE 01-63-004"
"S-72"
"ICNAF"
1963: 26 May-14 Jun.

25 NODC Files

18-014

Bedford Institute of Oceanography, Dartmouth, N.S.

18-014 - Continued

Punched Cards. 1964 Data Record Series no.10

BAFFIN
"CODC CRUISE 10-63-001"
"B-4"
1963: 13 Apr.-09 May

78 NODC Files

18-029

Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. (IN) "Oceanic Obs. of the Pacific 1956." Univ. California Press.

ST. CATHARINES
"CODC CRUISE 704"
"PAPA 56-1"
"PAPA 56-2"
1956: 25 Aug.-07 Dec.

11 NODC Files

18-033

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dalhousie University, Institute of Oceanography, Halifax, N.S.

Punched Cards. 1964 Data Record Series no.16

SACKVILLE
"CODC CRUISE 369"
"S-65"
1962: 24 Aug.-28 Sep.

16 NODC Files

18-034

Fisheries Research Board, Atlantic Oceanograph-

18-034 - Continued

ic Group, St. Andrews, N.B. & Bedford Institute of Oceanography, Dartmouth, N.S.
Punched Cards. 1964 Data Record Series no.14
BAFFIN 1963: 23 May-11 Jun.
"CODC CRUISE 01-63-003"
"B-5"
"ICNAF"
51 NODC Files
18-035 Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Bedford Institute of Oceanography, Dartmouth, N.S.
Punched Cards. 1964 Data Record Series no.19
SACKVILLE 1963: 27 Jun.-07 Jul.
"CODC CRUISE 01-63-005"
"S-73"
148 NODC Files
18-036 Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.
Punched Cards. 1963 Data Record Series no.6
ST. CATHARINES 1963: 26 Jun.-05 Aug.
"CODC CRUISE 02-63-003"
"PAPA 63-3"
35 NODC Files

18-037 Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.
Punched Cards
JOHN A. MACDONALD 1963: 04-06 Sep.
"CODC CRUISE 02-63-004"
"ICE PACK IV"
3 NODC Files
18-038 Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.
Punched Cards. 1964 Data Record Series no.5
ST. CATHARINES 1963: 09 Sep.-25 Oct.
"CODC CRUISE 02-63-005"
"PAPA 63.4"
24 NODC Files
18-039 Fisheries Research Board, Arctic Unit, Montreal.
Punched Cards. 1964 Data Record Series no.2
SALVELINUS 1963: 24 Jul.-28 Aug.
"CODC CRUISE 04-63-002"
14 NODC Files
18-040 Dept. of Mines and Technical Surveys, Division of Oceanographic Research.

18-049	Punched Cards. 1964 Data Record Series nos. 1 & 2	1961: 12 Jul.-15 Oct.	1963: 03-09 Apr.
	THETA "CODC CRUISE 337" "HB 61-2"		
	237	NODC Files	
18-042	Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.		
	Punched Cards. 1964 Data Record Series no. 6		
	SACKVILLE "CODC CRUISE 01-63-001" "S-68"	1963: 15-18 Jan.	
9		NODC Files	
18-044	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards. 1964 Data Record Series no. 15		
	ST. CATHARINES "CODC CRUISE 02-63-006" "PAPA 63-5"	1963: 04 Dec. to	
	ST. CATHARINES "CODC CRUISE 02-63-006" "PAPA 63-5"	1964: 15 Jan.	
		NODC Files	
18-045	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards. 1965 Data Record Series no. 1		
	THETA "CODC CRUISE 10-63-003" "TA 1-63"	1963: 30 Jun.-05 Jul.	
		NODC Files	
18-046	Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.		
	Punched Cards. 1964 Data Record Series no. 13		
	RADIUM GILBERT "CODC CRUISE 04-63-001"	1963: 22 Jun.-10 Sep.	
132		NODC Files	
18-051	Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.		
	Punched Cards. 1965 Data Record Series no. 1		
	THETA "CODC CRUISE 10-63-003" "TA 1-63"	1963: 30 Jun.-05 Jul.	
		NODC Files	

"S-77"

Fisheries Research Board, Atlantic Oceanographic Group, S. Andrews, N.B. & Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.

THETA
1963: 08 Aug.-18 Sep.

NODC Files

Bedford Institute of Oceanography, Dartmouth, N.S.

LABRADOR
1963: 15 Sep.-25 Oct.

NODC Files

Fisheries Research Board, Atlantic Oceanographic Group, S. Andrews, N.B. & Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.

SACKVILLE
1963: 12-29 Nov.

NODC Files

Fisheries Research Board, Pacific Oceanographic Group, Nanai'o, B.C.

ST. CATHARINES
1964: 22 Feb.-25 Apr.

"CODC CRUISE 02-64-001"
"PAPA 64-1"

NODC Files

**Fisheries Research Board, Biological Station,
St. John's, Newfoundland.**

INVESTIGATOR II

"CODC CRUISE 05-63-001"
"CODC CRUISE 05-63-002"

"CRUISE 006"
"CRUISE 007"

NODC Files

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.

18-061 - Continued

Punched Cards. 1965 Data Record Series no.4.

KAPUSKASING

"CODC CRUISE 10-64-005"

"BIO-5-64"

HUDSON

"CODC CRUISE 10-64-004"

"BIO-4-64"

12

NU es

18-062

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B.

Punched Cards. 1965 Data Record Series no.4

SACKVILLE

"CODC CRUISE 01-63-007"

"S-78"

7

NODC Files

18-068

Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.

Punched Cards

ST. CATHARINES

"CODC CRUISE 02-64-004"

"PAPA 64-2"

23

NODC Files

18-071

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dalhousie Univer-

18-071 - Continued

sity, Halifax, N.S.

Punched Cards. 1965 Data Record Series no.4

SACKVILLE

"CODC Cruise 14-64-003"

"S-80"

7

NODC Files

18-073

Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.

Punched Cards. 1965 Data Record Series no.11

LABRADOR

"CODC CRUISE 10-64-020"

"LAB 13-64"

"BIO 20-64"

95

NODC Files

18-074

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. & Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.

Punched Cards. 1965 Data Record Series no.10

SACKVILLE

"CODC CRUISE 356"

"S-61"

61

NODC Files

1962: 05-21 Mar.

18-076	Fisheries Research Board, Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.		BAFFIN "CODC CRUISE 10-64-009" "BIO 9-64"	NODC Files	1964: 04 Jun.-15 Jul.
	Punched Cards. 1965 Data Record Series no.10				
	SACKVILLE "CODC CRUISE 361" "S-64"	1962: 23 Jul.-10 Aug.			
53	NODC Files		CARTIER "CODC CRUISE 13-63-003" "CA 1-63"	1963: 19-29 Aug.	
18-078	Dept. of Mines and Technical Surveys, Division of Oceanographic Research, Tidal.			NODC Files	
	Punched Cards CODC Data Record no.7/64; no.8/64; no.9/64				
	BAFFIN "CODC CRUISE 352" "B-1"	1961: 30 Oct.-10 Nov.			
	BAFFIN "CODC CRUISE 345" "CODC CRUISE 355" "B-2" "B-3"	1962: 05 Feb.-19 Mar.	THETA "CODC CRUISE 10-65-006" "BIO 28-65"	1965: 19 Sep.-10 Oct.	
162	NODC Files			NODC Files	
18-082	Dept. of Mines and Technical Surveys, Marine Sciences Branch & Bedford Institute of Oceanography, Dartmouth, N.S.				
	Punched Cards. 1965 Data Record Series no.13				
	ST. CATHARINES "CODC CRUISE 02-66-004"	1966: 27 May-07 Jul.			

18-086 - Continued

"PAPA 66-2"

47

NODC Files

18-103

University of British Columbia.

Scripps Data Forms

EHKOLI

1948: 12 Nov.-09 Dec.

72

NODC Files

18-128

Dept. of Mines and Technical Surveys, Division
of Oceanographic Research, Tidal.

Punched Cards. 1966 Data Record Series no.12

LABRADOR

"LAB-61"

"CODC CRUISE 341"

JOHN A. MACDONALD

"ARCTIC 2"

"CODC CRUISE 344"

1961: 13 Aug.-05 Oct.

1961: 22 Aug.-14 Sep.

194

NODC Files

18-130

Dept. of Mines and Technical Surveys, Division
of Oceanographic Research.

Punched Cards. 1964 Data Record Series no.18

LABRADOR

"CODC CRUISE 340"

"LAB 60"

1960: 30 Aug.-25 Sep.

18-130 - Continued

90

NODC Files

18-136

Dept. of Mines and Technical Surveys, Division
of Oceanographic Research.

CODC Data Record no.18/64

THETA

"CODC CRUISE 329"

"ARCTIC 1960"

"TA-60-2"

1960: 22 Aug.-24 Sep.

16

NODC Files

18-138

Fisheries Research Board, Pacific Oceanograph-
ic Group, Nanaimo, B.C.

Punched Cards. 1966 Data Record Series no.1

ST. CATHARINES

"CODC CRUISE 02-65-001"

"PAPA 65-1"

1965: 23 Jan.-10 Mar.

19

NODC Files

18-139

Fisheries Research Board, Pacific Oceanograph-
ic Group, Nanaimo, B.C.

Punched Cards

ST. CATHARINES

"CODC CRUISE 757"

"PAPA 61-1"

1961: 18 Jan.-06 Mar.

23

NODC Files

18-140	Fisheries Research Board, Biological Station, St. Andrews, N.B.		
	Punched Cards. 1966 Data Record Series no.2		
	HUDSON "CODC CRUISE 03-65-001" "BIO 3-65"	1965: 03-24 Feb.	
39		NODC Files	
18-141	Fisheries Research Board, Pacific Oceanograph- ic Group, Nanaimo, B.C.		
	Punched Cards. 1966 Data Record Series no.3		
	ST. CATHARINES "CODC CRUISE 02-65-003" "PAPA 65-2"	1965: 17 Apr.-03 Jun.	
34		NODC Files	
18-142	Bedford Institute of Oceanography, Dartmouth, N.S.		
	Punched Cards. CODC Data Data Record no.4/66		
	JOHN A. MACDONALD "CODC CRUISE 359" "ARCTIC 1-62"	1962: 05 Aug.-04 Oct.	
170		NODC Files	
18-143	Fisheries Research Board, Pacific Oceanograph- ic Group, Nanaimo, B.C.		
	Punched Cards. 1966 Data Record Series no.5		
	ST. CATHARINES "CODC CRUISE 02-65-006" "PAPA 65-3"	1965: 02 Jul.-12 Aug.	
33		NODC Files	
18-145	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards. 1966 Data Record Series no.6		
	ST. CATHARINES "CODC CRUISE 02-65-009" "PAPA 65-4"	1965: 17 Sep.-02 Nov.	
37		NODC Files	
18-146	Dept. of Energy, Mines and Resources & Bedford Institute of Oceanography, Dart- mouth, N.S.		
	Punched Cards. 1966 Data Record Series no.7		
	BAFFIN "CODC CRUISE 10-64-028" "BIO 28-64"	1964: 21 Nov.-11 Dec.	
22		NODC Files	
18-147	Dept. of Energy, Mines and Resources & Bedford Institute of Oceanography, Dart-		

18-147 - Continued

mouth, N.S.

Punched Cards. 1966 Data Record Series no.9

HUDSON 1964: 17-25 Nov.

"CODC CRUISE 10-64-029"

"BIO 29-64"

51

NODC Files

18-148

Fisheries Research Board, Pacific Oceanographic
Group, Nanaimo, B.C.

Punched Cards. 1966 Data Record Series no.8

ST. CATHARINES 1965: 11 Dec. to

"CODC CRUISE 02-65-011"

"PAPA 65-5"

ST. CATHARINES 1966: 19 Jan.

"CODC CRUISE 02-65-011"

"PAPA 65-5"

23

NODC Files

18-150

Fisheries Research Board, Pacific Oceanographic
Group, Nanaimo, B.C.

Punched Cards

ST. CATHARINES 1961: 12 Apr.-29 May

"CODC CRUISE 764"

"PAPA 61-2"

36

NODC Files

18-151

Fisheries Research Board, Pacific Oceanographic
Group, Nanaimo, B.C.

Punched Cards

ST. CATHARINES 1961: 06 Dec. to

"CODC CRUISE 777"

"PAPA 61-5"

ST. CATHARINES 1962: 22 Jan.

"CODC CRUISE 777"

"PAPA 61-5"

25

NODC Files

18-152

Fisheries Research Board, Pacific Oceanographic
Group, Nanaimo, B.C.

Punched Cards

ST. CATHARINES 1961: 28 Jun.-07 Aug.

"CODC CRUISE 767"

"PAPA 61-3"

27

NODC Files

18-153

Fisheries Research Board, Pacific Oceanographic
Group, Nanaimo, B.C.

Punched Cards

ST. CATHARINES 1961: 13 Sep.-30 Oct.

"CODC CRUISE 773"

"PAPA 61-4"

28

NODC Files

18-157 - Continued

18-154	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards		
	ST. CATHARINES	1962: 24 Oct.-10 Dec.	
	"CODC CRUISE 791"		
	"PAPA 62-4"		
29		NODC Files	
18-158	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards. 1966 Data Record Series no.11		
	ST. CATHARINES	1966: 06 Mar.-20 Apr.	
	"CODC CRUISE 02-66-002"		
	"PAPA 66-1"		
34		NODC Files	
18-159	Bedford Institute of Oceanography, Dartmouth, N.S.		
	Punched Cards. 1967 Data Record Series no.2		
	SACKVILLE	1965: 02-11 Sep.	
	"CODC CRUISE 10-65-005"		
	"BIO 29-65"		
31		NODC Files	
18-160	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		

18-154	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards		
	ST. CATHARINES	1962: 02 Feb.-16 Apr.	
	"CODC CRUISE 780"		
	"PAPA 62-1"		
27		NODC Files	
18-155	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards		
	ST. CATHARINES	1962: 23 May-02 Jul.	
	"CODC CRUISE 787"		
	"PAPA 62-2"		
25		NODC Files	
18-156	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.		
	Punched Cards		
	ST. CATHARINES	1962: 01 Aug.-17 Sep.	
	"CODC CRUISE 788"		
	"PAPA 62-3"		
33		NODC Files	
18-157	Fisheries Research Board, Pacific Oceanographic		

18-160 - Continued

Punched Cards. 1965 Data Record Series no.7

ST. CATHARINES 1964: 08 Aug.-24 Sep.
"CODC CRUISE 02-64-007"
"PAPA 64-3"

29 NODC Files

18-161 Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.

Punched Cards. 1965 Data Record Series no.8

ST. CATHARINES 1964: 31 Oct.-15 Dec.
"CODC CRUISE 02-64-010"
"PAPA 64-4"

18 NODC Files

18-162 Bedford Institute of Oceanography, Dartmouth, N.S.

Punched Cards. 1967 Data Record Series no.3

SACKVILLE 1966: 18-25 Aug.
"CODC CRUISE 10-66-04"
"BIO 23-66"

52 NODC Files

18-163 Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.

Punched Cards

18-163 - Continued

1963: 13 Mar. to

OSHAWA
"OS-1"
"OS-2"
"OS-3"
"OS-4"
"OS-5"
"OS-6"
OSHAWA
"OS-1"
"OS-2"
"OS-3"
"OS-4"
"OS-5"
"OS-6"

1964: 27 Oct.

NODC Files

281

18-164 Bedford Institute of Oceanography, Dartmouth, N.S.

Punched Cards. 1967 Data Record Series no.4
LABRADOR 1962: 26 Sep.-20 Oct.
"CODC CRUISE 362"
"LAB 11-62"

81 NODC Files

180172 Fisheries Research Board, Atlantic Biological Station, St. Andrews, N.B.

Reduced Station Data Cards

LABRADOR 1954: 26 Aug.-18 Sep.
"LAB 1"
LABRADOR 1955: 04 Jul.-28 Oct.

180172 - Continued

"LAB 2"

160

NODC Files

180191

Fisheries Research Board, Pacific Biological
Station, Nanaimo, B.C.

Reduced Station Data Cards

AMLAC

1938: 24-30 May
1936: 12 Jun.-05 Sep.
1937: 21 Jun.-21 Oct.
1938: 24 Jun.-22 Nov.
1944: 29 May
1935: 14 May-26 Jun.

ARMENTIERES

ARMENTIERES

ARMENTIERES

EHKOLI

W. J. STEWART

120

NODC Files

180192

Fisheries Research Board, Atlantic Oceanograph-
ic Group, St. Andrews, N.B.

Reduced Station Data Cards

C. AGULHAS

C. AGULHAS

C. AGULHAS

ACADIA

ACADIA

ACADIA

ACADIA

ARLEUX

CHANGE

GRAMPUS

LAVAL

LAVAL

1931: 05 Sep.-07 Oct.
1932: 10 May-25 Sep.
1935: 27 Mar.-19 Sep.
1915: 29 May-23 Nov.
1930: 03 May-24 Jun.
1949: 15 Jun.-05 Nov.
1950: 29 May-05 Nov.
1923: 07 3 Sep.
1926: 20 Jul.-11 Aug.
1913: 16 Jan.-04 Mar.
1932: 04 Jul.-27 Aug.
1933: 29 Jun.-18 Aug.
1934: 27 Jun.-15 Aug.

180192 - Continued

LAVAL

LAVAL

LAVAL

LOUBRYNE

PRINCE

PRINCE

PRINCE

PRINCE

PRINCE

PRINCE

PRINCESS

3886

NODC Files

180282

Fisheries Research Board, Pacific Oceanograph-
ic Group, Nanaimo, B.C. & Canadian Joint Commit-
tee on Oceanography. "Pacific Coast Data
Record Offshore Survey." 1950.

Publication

ARMENTIERES

30

1936: 08 Jun.-04 Sep.

NODC Files

180291

International Fisheries Commission. "Hydro-
graphic Sections and Calculated Currents in the
Gulf of Alaska."

Data Sheets and Report no.4 & no.10

DOROTHY

DOROTHY

27

1927: 30 Jan.
1928: 13, 30 Jan.

NODC Files

180292	U.S. Navy Electronics Laboratory. "Oceanographic Cruise to the Bering and Chukchi Seas." pt.4, vol. 2, Report 416	18-300 - Continued
CEDARWOOD	1949: 10 Jul.-30 Aug.	graphic Group, St. Andrews, N.B.
220	DNO GC841 USS4 pt.4, v.2	Punched Cards. 1965 Data Record Series no.9
180293	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical and Chemical Data Record Approaches to Juan de Fuca Strait."	SACKVILLE
Report No. 32		"CODC CRUISE 01-64-001"
ARMENTIERES	1936: 14-26 Feb.	"S-79"
ARMENTIERES	1937: 25 Feb.-22 Oct.	220
ARMENTIERES	1938: 20 Jan.-23 Nov.	NODC Files
383	DNO GC57 C2P1 no.32	180371
180296	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Pacific Coast Data Record Offshore II Survey."	Fisheries Research Board, Arctic Unit, Montreal. "Physical Oceanographic Results." "Station List."
Report no.3		Manuscript Report Series (Oceanographic and Limnological) no.56 & Fisheries Research Board, Journal vol. IX, XI, and XIII
CEDARWOOD	1951: 01-14 Aug.	CALANUS
52	DNO GC57 C2P1 no.3	1949: 02 Jul.-24 Aug.
18-300	Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B.	1950: 29 Jun.-31 Aug.
		1951: 03 Jul.-30 Aug.
		1952: 30 Jul.-07 Aug.
		1953: 21 Jul.-13 Sep.
		1954: 24 Jul.-21 Aug.
		DNO GC854 C2M2 no.56 & DNO Periodicals
		87
		180401
		Fisheries Research Board, Atlantic Biological Station, St. Andrews, N.B.
		Tabular Data
		CANCOLIM II
		1951: 20 Aug.-15 Sep.
		NODC Files
		43

180417	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical and Chemical Data Record Strait of Georgia."	Report no.34	
	A. P. KNIGHT	1930: 07 Nov.-10 Dec.	
	A. P. KNIGHT	1931: 28 Jan.-23 Nov.	
	A. P. KNIGHT	1932: 06 Jan.-18 Nov.	
205		DNO GC57 C2P1 no.34	
180423	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Oceanic Observations of the Pacific 1950." By Scripps Institution of Oceanography, Univ. California Press, 1960.		
	Publication		
	CEDARWOOD	"CRUISE 1"	1950: 28 Jul.-26 Aug.
88		DNO GC771 025 1950	
180424	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Oceanographic Observations of the Pacific 1950." By Scripps Institution of Oceanography, Univ. California Press, 1960.		
	Publication		
	CEDARWOOD	"CRUISE 2"	1950: 16-22 Sep.
21		DNO GC771 025 1950	
180425	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Oceanic Observations of the Pacific 1950." By Scripps Institution of Oceanography, Univ. California Press, 1960.		
	Publication		
	W. J. STEWART	"CRUISE 3"	1950: 02-06 Oct.
18		DNO GC771 025 1950	
180434	University of British Columbia, Institute of Oceanography. "British Columbia Inlet Cruises."		
	Data Report no.2		
	CEDARWOOD	"CRUISE 52/1"	1952: 30 Mar.-13 Aug.
		"CRUISE 52/2"	
		"CRUISE 52/3"	
55		DNO GC1 C26 no.2	
180435	University of British Columbia, Institute of Oceanography. "British Columbia Inlet Study."		
	Data Report no.1		
	EHKOLI	"CRUISE 51/2"	1951: 16 May-27 Oct.
		"CRUISE 51/3"	
279		NODC Files	

130515	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical and Chemical Data Record...Queen Charlotte Sound, Hecate Strait, Dixon Entrance."		
	Report no.21 & no.22		
	CEDARWOOD	1954: 05 May-03 Dec.	
	"HECATE PROJECT"		
252		DNO GC57 C2P1 no.21 & no.22	
180521	University of British Columbia, Institute of Oceanography. "Survey of British Columbia Coast."		
	Data Report no.4		
	CANCOLIM II	1953: 12 Jun.-05 Sep.	
	"CRUISE 53/2"		
	"CRUISE 53/6"		
	"CRUISE 53/7"		
311		DNO GC1 C26 no.4	
180522	University of British Columbia, Institute of Oceanography. "Saanich Inlet Cruises, 1954 and 1955."		
	Data Report no.5		
	EHKOLI	1954: 18-24 May	
	"54/1"		
	EHKOLI	1955: 07-19 May	
180522 - Continued			
"55/1"			
118		DNO GC1 C26 no.5	
180529	Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B.		
	Reduced Station Data Cards		
	LABRADOR	1955: 03 Jun.-14 Nov.	
	109	NODC Files	
180540	Fisheries Research Board, Pacific Oceanographic group, Nanaimo, B.C. "Physical Chemical and Plankton Data Record."		
	Data Report no.26		
	STE. THERESE	1955: 27 Jul.-28 Aug.	
72		DNO GC781 C2 1955	
180549	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical, Chemical and Plankton Data Record North Pacific Survey with Appendix 1 Marine Salmon Exploratory Fishing Surveys."		
	Report no.37		
	NEW GLASGOW	1956: 31 Jul.-02 Sep.	
85		DNO GC1 C2P1 no.37	

180551	Fisheries Research Board, Atlantic Biological Station, St. Andrews, N.B.	180573 - Continued	Station Data Sheets
Reduced Station Data Cards		LABRADOR	1957: 01 Jul.-01 Oct.
LABRADOR		161	NODC Files
200	1956: 11 Jul.-07 Oct.	180614	University of British Columbia, Institute of Oceanography. "British Columbia Inlet Cruise."
	NODC Files	Data Report no.17	
180564	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical, Chemical and Plankton Data Record North Pacific Survey."	KAT	1960: 14-16 Mar.
	Manuscript Report Series (Oceanographic and Limnological) no.39	LAURIER	1960: 12 Dec.
OSHAWA	1957: 23 Jan.-04 Mar.	WHITETHROAT	1960: 01 Jun.-29 Sep.
68	NODC Files	"CRUISE 60/3"	
180567	Fisheries Research Board, Atlantic Biological Station, St. Andrews, N.B.	"CRUISE 60/26"	
Tabular Data		"CRUISE 60/8"	
LABRADOR	1954: 28 Jul.-25 Aug.	"CRUISE 60/17"	
71	1955: 29 Jun.-28 Sep.		
	NODC Files	81	NODC Files
180573	Fisheries Research Board, Atlantic Biological Station, St. Andrews, N.B.	180621	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Oceanographic Data Record Monitor and Coast Projects."
			Manuscript Report Series (Oceanographic and Limnological) no.94
		OSHAWA	1961: 21 Mar.-14 Apr.
		"C-61-2"	
		"MR-61-1"	
		139	DNO GC854 C2M2 no.94
		180630	Fisheries Research Board, Atlantic Oceanographic Station, St. Andrews, N.B.

1800630 - Continued

180630 - Continued	graphical Group, "Canadian Oceanographic Activities on IGY Drift Station BRAVO."	
	Manuscript Report Series (Oceanographic and Limnological) no.40	
	DRIFT STATION "BRAVO"	1958: 26 May-27 Sep.
21		NODC Files
180645	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.	
	Manuscript Report Series (Oceanographic and Limnological) no.44	
	ST. CATHARINES	1958: 23 Aug.-11 Dec.
	"CODEC CRUISE 726"	
	"CODEC CRUISE 729"	
	"PAPA 58-3"	
	"PAPA 58-4"	
28		NODC Files
180717	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical and Chemical Data Record North Pacific Surveys, Western Aleutians & Bering Sea."	
	Manuscript Report Series (Oceanographic and Limnological) no.28	
	WHITETHROAT	1958: 27 Jun.-14 Aug.
97		DNO GC854 C2M2 no.28
180718	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical, Chemical and Plankton Data Record North Pacific Surveys"	
	Manuscript Report Series (Oceanographic and Limnological) no.4	
	OSHAWA	1957: 23 Jul.-30 Aug.
65		NODC Library
180719	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical and Chemical Data Record North Pacific Surveys."	
	Manuscript Report Series (Oceanographic and Limnological) no.29	
	OSHAWA	1958: 23 Jul.-16 Aug.
99		DNO GC854 C2M2 no.29
18-721	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.	
	Punched Cards	
	ST. CATHARINES	1958: 09 Mar.-08 Jul.
	"PAPA 58-1"	
	"PAPA 58-2"	
53		NODC Files
180722	Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C.	

180722 - Continued

graphic Group, Nanaimo, B.C. "Physical and Chemical Data Record Coastal Seaways Project."

Manuscript Report Series (Oceanographic and Limnological) no.36

WHITETHROAT
"CS-58-1"

1958: 12 Nov.-05 Dec.

100

DNO GC854 C2M2 no.36

180723

Fisheries Research Board, Atlantic Oceanographic Group, St. Andrews, N.B. "Canadian IGY Project Deep Water Circulation."

Manuscript Report Series (Oceanographic and Limnological) no.34

SACKVILLE
"S-40"

1958: 22 Jul.-08 Sep.

51

NODC Library

18-725

Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Data Record Ocean Weather Station P."

Punched Cards

ST. CATHARINES

1957: 27 Jan.-31 Dec.

1958: 04-19 Jan.

ST. CATHARINES

"PAPA 57-1"

"PAPA 57-2"

"PAPA 57-3"

"PAPA 57-4"

"PAPA 57-5"

18-725 - Continued

58

NODC Files

180741

University of British Columbia, Institute of Oceanography. "British Columbia Inlet Cruises."

Data Report no.13

EHKOLI

1958: 21-26 Mar.

OSHAWA

1958: 10-16 Jun.

ST. ANTHONY

1958: 12-19 Feb.

WHITETHROAT

1958: 14-16 May

112

NODC Files

180749

Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical Chemical and Plankton Data Record North Pacific Survey."

Manuscript Report Series (Oceanographic and Limnological) no.16

OSHAWA

1958: 11 Mar.-11 Apr.

99

DNO GC854 C2M2 no.16

180750

University of British Columbia, Institute of Oceanography. "Indian Arm Cruises."

Data Report no.14

CLIFTON

1958: 08 Jan.-16 Dec.

EHKOLI

1958: 08 Jan.-16 Dec.

KAT

1958: 08 Jan.-16 Dec.

180750 - Continued

WHITETHROAT

1958: 08 Jan.-16 Dec.

71

NODC Files

180751

University of British Columbia, Institute of Oceanography. "British Columbia Inlet Cruises."

Data Report no.11

EHKOLI

"CRUISE 57/4"

"CRUISE 57/7"

"CRUISE 57/9"

"CRUISE 57/12"

"CRUISE 57/15"

221

DNO GC1 C26 no.11

180753

University of British Columbia, Institute of Oceanography. "Indian Arm Cruises."

Data Report no.12

EHKOLI

1957: 24 Jan.-05 Dec.

116

NODC Files

180756

University of British Columbia, Institute of Oceanography. "British Columbia Inlet Cruise."

Data Report no.7

CEDARWOOD

"CRUISE 55/3"

1955: 29 Jun.-20 Jul.

180756 - Continued

57

DNO GC1 C26 no.7

180758

University of British Columbia, Institute of Oceanography. "British Columbia Inlet Cruise."

Data Report no.8

CEDARWOOD

"CRUISE 56/4"

1956: 27 Jun.-22 Jul.

110

DNO GC1 C26 no.8

180759

University of British Columbia, Institute of Oceanography. "Indian Arm Cruises"

Data Report no.10

EHKOLI

"CRUISE 56/2"

"CRUISE 56/6"

"CRUISE 56/7"

"CRUISE 56/8"

"CRUISE 56/9"

1956: 21 May-07 Dec.

63

DNO GC1 C26 no.10

180761

Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical and Chemical Data Record Juan de Fuca Strait Project ... with Appendix 1, Current Measurements April 30, 1955."

Report no.23

180761 - Continued

EHKOLI 1951: 02 Oct.-23 Nov.
EHKOLI 1952: 28 Feb.-24 Oct.

780 DNO GC57 C2P1 no.23

180764 Fisheries Research Board, Pacific Oceanographic Group, Nanaimo, B.C. "Physical Chemical and Plankton Data Record Coastal Surveys."

Manuscript Report Series (Oceanographic and Limnological) no.17

OSHAWA 1957: 24 Apr.-17 Dec.

207 DNO GC854 C2M2 no.17

180781 University of British Columbia, Institute of Oceanography. "Indian Arm Cruises."

Data Report no.18

OSHAWA 1960: 05 Jan.-17 Dec.
WHITETHROAT 1960: 23 Mar.-03 Nov.
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1959: 06 Jan.

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180800

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"CRUISE 56/1"

1956: 09-19 May

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180805

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180818

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1950: 05-17, 28 Jul.
1951: 06 Jul.-24 Aug.
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1951: 08-11 Aug.
1952: 19 Jul.-14 Aug.
1953: 22 Aug.
1954: 08 Mar.-14 Nov.

134

DNO Q115 B6 01
1949-1954 pt.1

18-825

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"PAPA 59-2"
"PAPA 59-3"
"PAPA 59-4"

1959: 21 Jan.-24 Nov.

79

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62

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1962: 12-16 Jul.

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YANG MING

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"CRUISE 3"

YANG MING

"CRUISE 3"

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1963: 22 Jun.

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"CSK-1"

1965: 10 Aug.-13 Oct.

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	Originator's Coding Forms		1279	DNO GC791 K8
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YANG MING "CSK-3"	1966: 10 Sep.-13 Oct.		90	DNO GC791 K8
36	NODC Files		26-001	Kommissionen For Fiskeri- og Havundersøgelser.
22-001	Empresa Puertos de Colombia, Bogota.		Punched Cards Ices Format	
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			BORNHOLM DEEP (FIXED STATION)	1957: 09 May-11 Dec.
			271	NODC Files
	1932: 14 Jan. to 1933: to			
			MISAGO MARU	
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26-004	Kommissionen For Fiskeri- og Havundersøgelser.		
	Punched Cards Ices Format		
	BIOLOGEN	1958: 05 Mar.-10 Dec.	
	JENS VAEVER	1958: 03 Jul.-13 Aug.	
	GREENLAND VESSELS	1958: 18 Jun.-12 Dec.	
	BORNHOLM DEEP		
	(FIXED STATION)		
	376	1958: 01 Jan.-12 Jul.	
		NODC Files	
26-005	Kommissionen For Fiskeri- og Havundersøgelser.		
	Punched Cards Ices Format		
	BIOLOGEN	1959: 04 Mar.	
	GREENLAND VESSELS	1959: 13 Jan.-18 Dec.	
	BORNHOLM DEEP		
	(FIXED STATION)	1959: 03 Apr.-15 Dec.	
	251	NODC Files	
26-006	Kommissionen For Fiskeri- og Havundersøgelser.		
	Punched Cards Ices Format		
	DANA	1960: 03 Aug.-21 Sep.	
	DANA	1961: 05 Apr.-21 Sep.	
	428	NODC Files	
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	BORNHOLM DEEP	1960: 01 Jan. to	
	(FIXED STATION)	1961: 09 Dec.	
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	Publication		
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	Publication		
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INGOLF

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1896: Aug.

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1928: 24 May-10 Oct.

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260013

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vol. no.1

THOR (Denn.)
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THOR (Denn.)
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1905: 13-27 Jun.
1906: 01 May-11 Sep.
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1952: 19 Jun.

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1928-32.

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1928: May

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1927: Oct.

JAPETUS STEENSTRUP

1928: Jun.-Oct.

JAPETUS STEENSTRUP

1929: Apr.-Oct.

JAPETUS STEENSTRUP

1930: Apr.-Oct.

JAPETUS STEENSTRUP

1931: Mar.-Jun.

GODTHAAB

1928: May-Nov.

DANA

1930: Jun.-Jul.

DANA

1930: Sep.-Oct.

1931: May-Aug.

943

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Sea. "Bulletin Hydrographique." Copenhagen,
1933-35.

Annees 1932 to 1934 (3 v.)

BIOLOGEN

1932: Apr.-Oct.

BIOLOGEN

1933: Apr.-Oct.

BIOLOGEN

1934: Apr.-Oct.

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DANA 1932: Apr.-Aug.
 DANA 1933: Jun.-Sep.
 DANA 1934: Apr.-Jul.
 INGOLF 1934: Jun.-Aug.
 GODTHAAB 1932: Aug.
 GODTHAAB 1933: Jul.-Aug.
 MAAGEN 1934: Jun.
 HVIDBJORNEN 1934: Mar.-Nov.

1137 NODC Files

260028

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.

Annees 1935 to 1937 (3 v.)

BIOLOGEN 1935: Apr.-Oct.
 BIOLOGEN 1936: Jun.-Oct.
 BIOLOGEN 1937: Apr.-Oct.
 DANA 1935: Mar.-Jun.
 HVIDBJORNEN 1935: Mar.-Nov.
 HVIDBJORNEN 1936: Mar.-Sep.
 HVIDBJORNEN 1937: Apr.
 GRETHE KNOPPER 1937: Jul.-Aug.
 HEIMDAL (Denn.) 1936: Jan.-Aug.
 HEIMDAL (Denn.) 1937: Jun.-Aug.
 STEADY 1937: Jul.-Sep.
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26-031

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DANA 1938: 10 Jun.-06 Jul.

78 NODC Files

260042

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75 NODC Files

26-045

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1926.

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Annee 1925

DANA

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1925: Feb.-Oct.
1925: Feb.-Oct.

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26-047

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1924.

Annees 1920 to 1923

NOT GIVEN

NOT GIVEN

1922: Mar. to
1923: May

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NODC Files

26-048

International Council for the Exploration of the
Sea. "Bulletin hydrographique." Copenhagen, 1950.

Annees 1940 to 1946

CODAN

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DANA

EVA THINNESEN

GOOTHAAB

HEIMDAL (Denn.)

ADOLF JENSEN

1940: Jun.-Sep.
1941: Aug.
1942: Aug.
1943: Aug.-Oct.
1944: Aug.-Oct.
1945: May-Oct.
1946: Sep.
1946: Aug.-Sep.
1946: May-Jul.
1945: Aug.-Sep.
1946: Jul.-Aug.
1946: Jun.-Sep.

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DANMARK

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1907: 03 Jan.-14 Sep.
1908: 17 Jan.-28 Jul.

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DNO Q115 DANMARK 1906-
1908 bd.1, nr.2

26-294

International Council for the Exploration of the
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1950.

Annee 1947

CODAN

DANA

ALVILDE

HOLGER DANSKE

HEIMDAL

1947: Sep.
1947: May-Oct.
1947: Oct.
1947: Aug.
1947: Jun.-Aug.

282

NODC Files

26-295

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1952.

Annee 1949

26-295 - Continued

BIOLOGEN 1948: Jun.
 DANA 1948: May-Aug.
 HAVKATTEN 1948: Jun.-Sep.
 HEIMDAL (Denm.) 1948: May-Sep.
 MORTENSEN 1948: Sep.
 JAPETUS STEENSTRUP 1948: Jul.
 294 NODC Files

26-350 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

Annees 1938 to 1933

BIOLOGEN 1938: Apr.-Oct.
 BIOLOGEN 1939: Apr.-Aug.
 DANA 1938: Apr.-Aug.
 DANA 1939: Jul.-Aug.
 HEIMDAL (Denm.) 1938: Jun.-Aug.
 HVIDBJORNEN 1938: May-Sep.
 HVIDBJORNEN 1939: Apr.-May
 610 NODC Files

26-419 G. Andrup Expedition.

Manuscript Data

ANTARCTICA 1900: Jun.-Jul.
 4 NODC Files

26-534 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen,

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1954.
 Annee 1949
 SINNE BIERREGAARD 1949: Jun.-Aug.
 BIOLOGEN 1949: Apr.-Nov.
 HEIMDAL (Denm.) 1949: May-Sep.
 MORTENSEN 1949: Apr.-Sep.
 CHRISTIANSØ 1949: Aug.-Dec.

192 NODC Files

26-535 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.

Annee 1950
 BIOLOGEN 1950: Feb.-Nov.
 HEIMDAL (Denm.) 1950: May-Sep.
 DANA 1950: May-Aug.
 JENS VAEVER 1950: Aug.
 CHRISTIANSØ 1950: Jan.-Dec.

330 NODC Files

26-700 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Annee 1951
 ADOLF JENSEN 1951: Aug.-Dec.
 BIOLOGEN 1951: Feb.-Oct.
 DANA 1951: May-Dec.
 CHRISTIANSØ 1951: Jan.-Dec.

26-700 - Continued

230

DNO GC1 162 1951

26-701

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1953.

Annee 1952

ADOLF JENSEN
BIOLOGEN
DANA
JENS VAEVER
THETIS
CHRISTIANSEN

1952: Jan.-Jun.
1952: Feb.-Sep.
1952: Mar.-Aug.
1952: May
1952: Mar. & Nov.
1952: Feb., Jun.
& Nov.

502

DNO GC1 162 1952

26-720

International Council for the Exploration of the Sea. "Bulletin Hydrographique". Copenhagen, 1957.

Annee 1953

ADOLF JENSEN
BIOLOGEN
CHRISTIANSEN
DANA
IMMANUEL
MORTENSEN
THETIS
JENS VAEVER

1953: Mar.-Dec.
1953: Mar.-Dec.
1953: Mar.-Sep.
1953: Apr.-Aug.
1953: Jun.-Aug.
1953: Jan.-Nov.
1953: May-Sep.
1953: Jul.-Oct.

625

NODC Files

26-824

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1959.

Annee 1954

ADOLF JENSEN
BIOLOGEN
IMMANUEL
THETIS
DANA
CHRISTIANSEN

1954: Jun.-Nov.
1954: Mar.-Nov.
1954: Jun.-Aug.
1954: May.-Sep.
1954: Apr.-Aug.
1954: Mar.-Sep.

691

NODC Files

26-846

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1960.

Annee 1955

ADOLF JENSEN
BIOLOGEN
DANA
JENS VAEVER

1955: Mar.-Dec.
1955: May-Aug.
1955: Apr.-Oct.
1955: Apr.-Nov.

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260909

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1958: 30 Jun.-25 Aug.

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290140	<p>Annee 1956</p> <p>JENS VAEVER IMMANUEL CHRISTIANSEN THETIS DANA ADOLF JENSEN BILOGEN</p> <p>1956: Jun.-Jul. 1956: Jan.-Nov. 1956: Jul.-Aug. 1956: Aug.-Sep. 1956: Jun.-Sep. 1956: Jun.-Jul. 1956: Apr.-Dec.</p> <p>579 NODC Files</p> <p>270255 Coast Guard and Fisheries Service, Fisheries Research Section. "Some Hydrographical Data from the Suez Canal." Cairo, 1930.</p> <p>Egypt Bulletin no.1</p> <p>TEIR EL BAHR TEIR EL BAHR</p> <p>36 NODC Files</p> <p>290027 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1933-35.</p> <p>Annees 1932 to 1934 (3 v.)</p> <p>XAUEN XAUEN</p> <p>1932: Feb. to 1933: to</p>	<p>1934: Feb. NODC Files</p>	
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Memorias, vol. I

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 VASCO NUÑEZ DE BALBOA 1915: 25 Jun.-25 Aug.
 HERNAN CORTES 1916: 10 Jul.-28 Aug.

61 NODC Files

290197 Instituto Espanol de Oceanografia. "Registro General de Operaciones." 1919.

Memorias, vol. XII

HERNAN CORTES 1917: 30 Jul.-04 Sep.
 HERNAN CORTES 1918: 15 Jul.-05 Sep.

57 DMO GC1 Spain Memorias XII

290205 Instituto Espanol de Oceanografia. "Exploracion Oceanografica del Africa Occidental desde el Cabo Ghir al Cabo Juby." 1947.

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290207 Instituto Espanol de Oceanografia. "Caracteres Oceanograficos del Estrecho de Gibraltar." 1935.

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290145

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vol. LX

EDUARDO DATO 1927: May.-Dec.

62 DLC QC1 I66 v.60 &
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290146

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1931.

vol. LXX

LAYA 1929: Jun.
 XAUEN 1929: Sep.-Dec.

38 DMO GC1 I66 v.70

290193

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1929.

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51 DMO GC1 I66 v.62

290196

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XAUEN	1934: 20 Feb.-19 Sep.	74	NODC Files
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290209	Instituto Espanol de Oceanografia. "Campanas ... en el Mar de Alboran y en el Estrecho de Gibraltar." 1949.	Annee 1954	
		XAUEN	1954: Jan.-Sep.
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XAUEN	1948: 02 Jan.-08 Sep.	Annee 1955	
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290267	Instituto Espanol de Oceanografia. "Lista de las Operaciones Realizadas en la Bahia de Algeciras." 1924.	94	NODC Files
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29-720	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1957.	"EQUALANT II" "CRUISE 1"	
Annee 1953		46	NODC Files
XAUEN	1953: Jul.-Oct.	29-991	Instituto Espanol de Oceanografia.

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MALASPINA
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NODC Files

1964: 15 Feb.-12 Mar.

29-999

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1962.

Annex 1956

KAUEN

1956: Jan.-Feb.

75

NODC Files

310001

Naval Oceanographic Office.

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1962: 01-31 Mar.

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NODC Files

310002

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1928: 12 May to

1929: 17 Nov.

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Scripps Institution of Oceanography. "Data Report." 1960.

SIO Ref. 60-39

BLACK DOUGLAS
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(MLR-121)"

1959: 10-25 Jun.

HORIZON
"CCOFI CRUISE 5906
(MLR-121)"

1959: 15-19 Jun.

ORCA
"CCOFI CRUISE 5906
(MLR-121)"

1959: 03-16 Jun.

PAOLINA-T
"CCOFI CRUISE 5906
(MLR-121)"

1959: 24-30 Jun.

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Scripps Institution of Oceanography. "Data Report." 1961.

SIO Ref. 62-5

BLACK DOUGLAS
"CCOFI CRUISE 6003"
HORIZON
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1960: 13-28 Mar.

1960: 10-27 Mar.

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31-005	Scripps Institution of Oceanography. "Data Report."	1956: 26 May-24 Jun.
1961.		
SIO Ref. 62-6		
HORIZON		
"CCOFI CRUISE 6004"	1960: 02-26 Apr.	
HUGH M. SMITH	1960: 31 Mar.-18 Apr.	
"CCOFI CRUISE 6004"	1960: 13-29 Apr.	
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"CCOFI CRUISE 6004"		
243	NODC Files	
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1961.		
SIO Ref. 61-20		
SPENCER F. BAIRD		
"CCOFI CRUISE 5910	1959: 10-26 Oct.	
(MLR-125)"		
ORCA	1959: 09-20 Oct.	
"CCOFI CRUISE 5910	1959: 17-29 Oct.	
(MLR-125)"		
BLACK DOUGLAS		
"CCOFI CRUISE 5910		
(MLP-125)"		
193	NODC Files	
31-007	Scripps Institution of Oceanography. "Data Report."	
1960.		
SIO Ref. 60-34		
SPENCER F. LAIRD		
"CCOFI CRUISE 5606	1956: 26 May-24 Jun.	
(MLR-85)"		
PAOLINA-T	1956: 29 May-15 Jun.	
"CCOFI CRUISE 5606		
(MLR-85)"		
BLACK DOUGLAS	1956: 02-16 Jun.	
"CCOFI CRUISE 5606		
(MLR-85)"		
134	NODC Files	
31-008	Scripps Institution of Oceanography. "Data Report."	
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SIO Ref. 60-40		
BLACK DOUGLAS	1959: 09 Jul.-03 Aug.	
"CCOFI CRUISE 5907		
(MLR-122)"	1959: 10-25 Jul.	
ORCA	1959: 11-24 Jul.	
"CCOFI CRUISE 5907		
(MLR-122)"		
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31-009	Texas A&M University, Dept. of Oceanography and	
	Meteorology. "Waters of the Gulf of Mexico."	
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HIDALGO	1959: 17-26 Feb.	
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31-010	Scripps Institution of Oceanography. "Data Report."		Scripps Institution of Oceanography. "Data Report."	
1960.			1961.	
SIO Ref. 60-35			SIO Ref. 61-21	
BLACK DOUGLAS			PAOLINA-T	1959: 16-25 Nov.
"CCOFI CRUISE 5608			"CCOFI CRUISE 5911	
(MLR-87)"	1956: 16 Aug.-17 Sep.		(MLR-126)"	
"CCOFI CRUISE 5609			ORCA	1959: 09-17 Dec.
(MLR-86)"			"CCOFI CRUISE 5912	
			(MLR-127)"	
30	NODC Files	64	NODC Files	
31-011	Scripps Institution of Oceanography. "Data Report."	31-013	Scripps Institution of Oceanography.	
1961.		SIO Ref. 62-3		
SIO Ref. 61-19		BLACK DOUGLAS	1960: 18 Feb.-03 Mar.	
BLACK DOUGLAS		"CCOFI CRUISE 5908	"CCOFI CRUISE 6002"	
"CCOFI CRUISE 5908		(MLR-123)"	HUGH M. SMITH	1960: 11-20 Feb.
"CCOFI CRUISE 5909	1959: 13 Aug.-25 Sep.	(MLR-124)"	"CCOFI CRUISE 6002"	
HUGH M. SMITH				
"CCOFI CRUISE 5908		65	NODC Files	
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ORCA		1962.		
"CCOFI CRUISE 5908	1959: 15 Aug.-16 Sep.	SIO Ref. 62-7		
(MLR-124)"		BLACK DOUGLAS	1960: 14-28 May	
"CCOFI CRUISE 5909		"CCOFI CRUISE 6005"	ORCA	1960: 18-27 May
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225	NODC Files			

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1959: 24 Apr.-28 Aug.

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1959: 25 May-03 Sep.

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31-030

Fish and Wildlife Service.

Tabular Data

HUGH M. SMITH
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1958: 06 Apr.-15 Jun.

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31-032

Fish and Wildlife Service. "Physical, Chemical and Biological Observations in the Eastern Tropical Pacific Ocean; Three Cruises to Tehuantepec." 1962.

Special Scientific Report-Fisheries no.420

SPENCER F. BAIRD

1958: 22 Nov.-02 Dec.

"STOR CRUISE TO 58-2"

STRANGER

1959: 17 Jan.-22 Feb.

"STOR CRUISE TO 59-1"

HUGH M. SMITH

1959: 04-18 Sep.

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University of Miami, Institute of Marine Sciences Marine Laboratory. "Data Obtained in Florida Straits and off the West Coast of Florida." 1962.

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1962: 21 Apr.-27 Jun.

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"CRUISE Ge-6213"

"CRUISE Ge-6215"

111

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310034

Naval Oceanographic Office.

NODC Coding Forms

SAN PABLO

1962: 10 Oct.-04 Nov.

128

NODC Files

310035

Woods Hole Oceanographic Institution.

Reduced Data Cards

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1961: 11-29 May

"CRUISE 17"

53

NODC Files

31-043 - Continued

CASCO
"OWS DELTA IV"

80

1963: 29 Mar.-19 Apr.

NODC Files

31-044

Coast and Geodetic Survey.

NODC Coding Forms

HYDROGRAPHER
"OPR 328"

1962: 02-03 Jun.

12

NODC Files

31-049

Naval Oceanographic Office.

NODC Coding Forms

ATKA
"ICNAF"

1963: 01-09 Jun.

14

NODC Files

31-050

Naval Oceanographic Office.

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PIONEER
"OPR 394"

1962: 24 Feb.-02 Oct.

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31-051

Bureau of Commercial Fisheries, Biological Laboratory, Seattle. "North Pacific and Bering Sea

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Oceanography." 1963.

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1960: 18 May-25 Jul.
1961: 20 May-05 Aug.
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1961: 04 May-17 Aug.

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31-052

Naval Oceanographic Office.

NODC Coding Forms

REHOBOTH
"CRUISE D-5"

1963: 09 May-12 Jun.

94

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31-053

Naval Oceanographic Office.

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1963: 14 Mar.-13 Apr.

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BLACK DOUGLAS
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1951: 02 Aug.-10 Nov.

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"CCOFI CRUISE 5108"			
"CCOFI CRUISE 5109"			
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1951: 31 Jul.-08 Nov.			
1951: 02 Aug.-07 Oct.			
1951: 28 Nov.-12 Dec.			
1951: 25 Nov.-04 Dec.			
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BLACK DOUGLAS
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BLACK DOUGLAS
"CCOFI CRUISE 6102"
HORIZON
"CCOFI CRUISE 6101"
HUGH M. SMITH
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BLACK DOUGLAS
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BLACK DOUGLAS
"CCOFI CRUISE 6110"
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NODC Files

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SIO Ref. 62-15
BLACK DOUGLAS
"CCOFI CRUISE 6104"
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"CCOFI CRUISE 6109"
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BLACK DOUGLAS
"CCOFI CRUISE 6110"
125
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31-083	Scripps Institution of Oceanography. "Data Report." 1962.		31-085 - Continued	
	SIO Ref. 62-10		126	NODC Files
	BLACK DOUGLAS	1960: 11 Aug.-15 Oct.	31-086	
	"CCOFI CRUISE 6008"			Oregon State University, Dept. of Oceanography.
	"CCOFI CRUISE 6010"			"Data Report no.7: Hydrographic Data from Oregon Coastal Waters." 1962.
	HIGH M. SMITH	1960: 06-22 Oct.		Ref. 62-7
	"CCOFI CRUISE 6010"			ACONA
	SPENCER F. BAIRD	1960: 22 Sep.-22 Oct.		ACONA
	"CCOFI CRUISE 6009"			179
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133			31-087	
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31-084	Scripps Institution of Oceanography. "Data Report." 1962.			SIO Ref. 62-26
	SIO Ref. 62-23			HORIZON
	BLACK DOUGLAS	1962: 15 Jul.-29 Aug.		1962: 11 Jan.-16 Feb.
	"CCOFI CRUISE 6207"			"CCOFI CRUISE 6201-2"
	"CCOFI CRUISE 6208"			ARGO
				1962: 13-16 Jan.
76				"CCOFI CRUISE 6201-2"
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				1962: 02-06 Feb.
31-085	Texas A&M University, Dept. of Oceanography and Meteorology. "Waters of the Gulf of Mexico." 1962.		121	NODC Files
	Ref. 62-16D		31-088	
	HIDALGO	1962: 14 Feb.-31 Mar.		Fish and Wildlife Service. "Oceanographic Observations in Bristol Bay and the Bering Sea." 1961.
	"CRUISE 126"			Special Scientific Report-Fisheries no.381
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				1939: 15 May-10 Sep.
				REDWING
				1940: 27 Jun.-06 Sep.

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REDWING	1941: 06 May-21 Jun.	310092	Naval Oceanographic Office.
576	NODC Files		Manuscript Data
31-099		REHOBOTH	1958: 03-18 May
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SABLEFISH	1961: 11 Jan.-24 Nov.		Fish and Wildlife Service. "North Pacific and Bering Sea Oceanography." 1959.
SABLEFISH	1962: 02 Jan.-02 Feb.		
MACKINAW	1959: 24-27 Nov.		Special Scientific Report-Fisheries no.312
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AUKE BAY TENDER	1961: 20-25 Jul.	ATTU	1958: 14 May-29 Aug.
71	NODC Files		
31-090		183	NODC Files
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NODC Coding Forms		31-094	
SERRANO	1963: 19 Feb.-27 Mar.		Fish and Wildlife Service. "North Pacific and Bering Sea Oceanography." 1959.
"INTERNATIONAL INDIAN OCEAN EXPEDITION"			Special Scientific Report-Fisheries no.292
63	NODC Files	ATTU	1957: 30 May-08 Sep.
		PIONEER	1957: 02 Jun.-11 Sep.
		PARAGON	1957: 21 Jul.-12 Sep.
310091		93	NODC Files
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REHOBOTH	1962: 16 Nov.-13 Dec.		Fish and Wildlife Service. "Bristol Bay Oceanography." 1959.
49	NODC Files		Special Scientific Report-Fisheries no.311

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REDWING

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1938: 07 Aug.-08 Sep.

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310096

Naval Oceanographic Office.

Manuscript Data

SAN PABLO

1958: 02-20 Aug.

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Coast and Geodetic Survey.

Originator's Log Sheets

SURVEYOR

"CRUISE 65-415"

1960: 17 Jul.-27 Sep.

8

NODC Files

31-098

Coast and Geodetic Survey.

Originator's Log Sheets

EXPLORER (U.S.)

"CRUISE 425"

1962: 23 Feb.-16 Sep.

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NODC Files

310099

Coast and Geodetic Survey.

Originator's Log Sheets

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PIONEER

1962: 02 Mar.-25 Sep.

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Scripps Institution of Oceanography & Navy
Electronics Laboratory, San Diego, Calif.
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Univ. California Press, 1961.

Publication & Originator's Data Sheets

SERRANO

1948: 11-23 Nov.

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310101

Scripps Institution of Oceanography & Navy
Electronics Laboratory, San Diego, Calif.
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Univ. California Press, 1957.

Publication & Originator's Data Sheets

SERRANO

1949: 03-30 Mar.

"CRUISE II"

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310102

Scripps Institution of Oceanography & Navy
Electronics Laboratory, San Diego, Calif.
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Univ. California Press, 1957.

Publication & Originator's Data Sheets

SERRANO

1949: 15 May-22 Jun.

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310103

Columbia University, Lamont Geological Observatory. "Physical and Chemical Oceanographic Data Obtained in the Labrador Sea." 1963.

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1962: 23 Mar.-08 Apr.

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310111

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Log Sheets & Bulletin no. 15

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1926: 28 Mar.-29 Jun.

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1926: 28 Mar.-29 Jun.

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Coast Guard. "International Ice Observation and Ice Patrol Service." 1933.

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1932: 02 Apr.-19 Jun.

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310118

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1934: 19 Apr.-15 Jul.

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310120

Coast Guard. "International Ice Observations and

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GENERAL GREENE
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1935: 28 Mar.-23 Aug.

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310121

Coast Guard. "International Ice Observations and
Ice Patrol Service." 1938.

Log Sheets & Bulletin no.27

GENERAL GREENE
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276

1937: 31 Mar.-13 Jul.

NODC Files & DNO
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310122

Coast Guard. "International Ice Observations and
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GENERAL GREENE
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Coast Guard. "International Ice Observation and
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GENERAL GREENE
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1939: 30 Mar.-15 Jul.

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310124

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tions to Davis Straits and Labrador Sea. Scien-
tific Results, Part 2." 1937.

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1931: 04 Jul.-08 Aug.
1933: 27 Jun.-24 Jul.
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HORIZON 1949: 14-15 Mar.
"CCOFI CRUISE 4903 (MLR-1)"

N.B. SCOFIELD 1949: 28 Feb.-12 Mar.
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70 NODC Files

31-129 Scripps Institution of Oceanography. "Oceanographic Observations of the Pacific 1949." Univ. California Press, 1957.

CREST 1949: 28 Mar.-09 Apr.
"CCOFI CRUISE 4904 (MLR-2)"

HORIZON 1949: 30 Mar.-10 Apr.
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31-130 Scripps Institution of Oceanography. "Oceanographic Observations of the Pacific 1949." Univ. California Press, 1957.

CREST 1949: 02-14 May
"CCOFI CRUISE 4905 (MLR-3)"

HORIZON 1949: 30 Apr.-10 May
"CCOFI CRUISE 4905 (MLR-3)"

N.B. SCOFIELD 1949: 28 Apr.-14 May

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"CCOFI CRUISE 4906
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(MLR-4)"

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"CCOFI CRUISE 4906
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"CCOFI CRUISE 4907
(MLR-5)"

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"CCOFI CRUISE 4907
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NODC Files

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"CCOFI CRUISE 4908
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(MLR-7)"

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1949: 03-20 Oct.

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ifornia Press, 1957.

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1949: 12-25 Nov.

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1948: 13 Apr.-31 Jul.

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(MLR-25)"
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(MLR-24)"
"CCOFI CRUISE 5105
(MLR-25)"
HORIZON
"CCOFI CRUISE 5104
(MLR-24)"
"CCOFI CRUISE 5105
(MLR-25)"

1951: 03 Apr.-16 May

1951: 06 Apr.-15 May

1951: 04 Apr.-16 May

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CCOFI CRUISE 5107
(MLR-27)"
YELLOWFIN
"CCOFI CRUISE 5106
(MLR-26)"
HORIZON
"CCOFI CRUISE 5106
(MLR-26)"
CREST
"CCOFI CRUISE 5106"

1951: 07 Jun.-16 Jul.

1951: 30 May-10 Jun.

1951: 31 May-14 Jun.

1951: 31 May-06 Jul.

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31-167

Naval Oceanographic Office.

NODC Coding Forms

EDISTO

1963: 28 Jul.-26 Aug.

103

NODC Files

31-168

Naval Oceanographic Office.

NODC Coding Forms

DUANE

"OWS DELTA V"

1963: 25 Jun.-11 Jul.

49

NODC Files

31-169

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Biological Data from the Northeast Pacific Ocean,
Columbia River Effluent Area." 1963.

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BROWN BEAR

"CRUISE 88-275"

"CRUISE 88-280"

"CRUISE 88-282"

"CRUISE 88-287"

1961: 11 Jan.-19 Jun.

31-169 - Continued

"CRUISE 88-288"

288

NODC Files

31-170

Woods Hole Oceanographic Institution.

Produced Data Cards

ERIKA-DAN

1962: 25 Jan.-20 Apr.

213

NODC Files

31-171

Coast Guard

NODC Coding Forms

EVERGREEN

"INTERNATIONAL ICE

PATROL"

1963: 03 May-10 Jun.

363

NODC Files

31-172

Coast and Geodetic Survey.

NODC Coding Forms

PIONEER

"OPF 421"

SURVEYOR

"OPR 421"

1963: 02 May-10 Jun.

1963: 04 May-03 Jun.

51

NODC Files

31-173

Woods Hole Oceanographic Institution.

31-173 - Continued

Reduced Data Cards

ATLANTIS II
"CRUISE 2"

18

31-174
Coast Guard.

Reduced Data Forms

EVERGREEN
"POST SEASON CRUISE"

44

31-175

Scripps Institution of Oceanography & Inter-
American Tropical Tuna Commission. "Oceanic
Observations of the Pacific 1956." Univ.
California Press, 1963.

STRANGER
"SCOPE EXPEDITION"

26

31-176

Coast Guard. "International Ice Patrol Service."
1963.

Bulletin no.48

EVERGREEN
"INTERNATIONAL ICE
PATROL"

31-176 - Continued

436

NODC Files

31-177

University of Washington, Dept. of Oceanography.
"Oceanic Observations of the Pacific 1956."
Univ. California Press, 1963.

MITOK

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PARAGON

CELTIC

1956: 22 May-16 Sep.
1956: 31 May-14 Sep.
1956: 12 Jul.-24 Sep.
1956: 13 Jul.-19 Sep.

212

NODC Files

31-178

Scripps Institution of Oceanography. "Data Report."
1963.

SIO Ref. 63-25

ALEXANDER AGASSIZ

"CCOFI CRUISE 6210"

"CCOFI CRUISE 6211"

"CCOFI CRUISE 6212"

BLACK DOUGLAS

"CCOFI CRUISE 6210"

1962: 10 Oct.-19 Dec.

1962: 10-15 Oct.

127

NODC Files

31-179

Coast and Geodetic Survey.

NODC Coding Forms

SURVEYOR

"OPR 421"

1963: 10-30 Sep.

6

NODC Files

31-180	Naval Oceanographic Office.	31-183	Scripps Institution of Oceanography. "Data Report." 1966.
Manuscript Data		SIO Ref. 66-16	
REH0807H	1963: 10 Aug.-14 Sep.	HORIZON	1962: 12 Jul.-26 Sep.
50		"ZEPHYRUS EXPEDITION"	
31-181	Scripps Institution of Oceanography. "Preliminary Results of Scripps Investigations in the Indian Ocean." 1964.	30	WDC-A Files 139.8 B-7
SIO Ref. no.64-19		31-184	Scripps Institution of Oceanography.
ARGO	1960: 24 Sep. to	Tabular Data	
"MONSOON EXPEDITION"		ARGO	1962: 20 May to
"INTERNATIONAL INDIAN OCEAN EXPEDITION"		"LUSIAD I"	
ARGO	1961: 13 Apr.	"LUSIAD II"	
"MONSOON EXPEDITION"		"LUSIAD III"	
"INTERNATIONAL INDIAN OCEAN EXPEDITION"		"INTERNATIONAL INDIAN OCEAN EXPEDITION"	
37	NODC Files	ARGO	1963: 07 Jul.
31-182	Scripps Institution of Oceanography. "Data Report." 1966.	253	WDC-A Files 138.3
SIO Ref. no.66-16		31-185	Naval Oceanographic Office.
SPENCER F. BAIRD	1962: 13 Apr.-06 Jul.	NODC Coding Forms	
"PROA EXPEDITION"		GILLISS	1964: 17-18 Feb.
12	WDC-A Files 139.8 A-7	"ASWEPS"	

31-185 - Continued

65 NODC Files

31-186 Naval Oceanographic Office.
NODC Coding Forms
REMOBOTH 1963: 10-21 Oct.
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31-187 Columbia University, Lamont Geological Observatory. "Physical Oceanographic Data." 1964.
Technical Report no.1 CU-1-64
ELTANIN 1962: 15 Jul. to
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"CRUISE 5"
"CRUISE 6"
ELTANIN 1963: 17 Jan.
"CRUISE 6"
91 NODC Files

31-188 Naval Oceanographic Office.
NODC Coding Forms
NORTHWIND 1963: Aug.-Sep.
180 NODC Files

31-189 Naval Oceanographic Office.

31-189 - Continued

NODC Coding Forms
CHAUTAUQUA 1964: 21 Mar.-10 Apr.
59 NODC Files

31-190 Coast Guard.
NODC Coding Forms
INGHAM 1964: 14-30 Jun.
"OWS CHARLIE"
15 NODC Files

31-191 Bureau of Commercial Fisheries, Biological Laboratory, Auke Bay, Alaska.
NODC Coding Forms
MURRE II 1963: 10 Mar.-15 Jun.
158 NODC Files

31-192 Naval Oceanographic Office.
NODC Coding forms
GILLISS 1964: 18-23 Mar.
"AGOR CRUISE 046406"
11 NODC Files

31-194 Naval Oceanographic Office.

31-194 - Continued

NODC Coding Forms

ATKA

"DEEP FREEZE 64"

79

NODC Files

1964: 02 Feb.-04 Mar.

31-195

Coast and Geodetic Survey.

NODC Coding Forms

EXPLORER (U.S.)
"OPR 524"

1964: 25-29 May

13

NODC Files

31-196

Coast Guard.

NODC Coding Forms

COOK INLET
"OWS BRAVO"

1964: 04-19 Aug.

6

NODC Files

31-197

Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS II
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"CRUISE 8"

1963: 10 Jul.-07 Dec.

227

NODC Files

31-198

Naval Oceanographic Office.

NODC Coding Forms

ROCKVILLE
"PU-046"

1964: 10-15 May

3

NODC Files

31-199

Woods Hole Oceanographic Institution. "U.S.
Program in Biology, International Indian
Ocean Expedition." 1963-1964.

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ANTON BRUUN
"CRUISE A"
"CRUISE 1"
"CRUISE 2"
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OCEAN EXPEDITION"

1963: 24 Feb.-23 Jul.

144

NODC Files

31-200

Coast Guard.

NODC Coding Forms

EVERGREEN

1964: 16-17 Sep.

14

NODC Files

31-201

Coast and Geodetic Survey.

31-201 - Continued

NODC Coding Forms		
PIONEER	1964: 18 Mar.-03 Jul.	
"OPR 442"		
"INTERNATIONAL INDIAN OCEAN EXPEDITION"		
63	NODC Files	
31-202		
Cost and Geodetic Survey.		
NODC Coding Forms		
PIONEER	1964: 14-22 Feb.	
"OPR 394"		
7	NODC Files	
31-203		
Naval Oceanographic Office.		
NODC Coding Forms		
CHARLES H. DAVIS	1964: 23 Apr.-12 Sep.	
53	NODC Files	
31-204		
Coast and Geodetic Survey, Seattle.		
NODC Coding Forms		
SURVEYOR	1964: 09-20 Sep.	
"OPR 421"		
27	NODC Files	
31-205		
Coast and Geodetic Survey.		
NODC Coding Forms		
EXPLORER (U.S.)	1964: 09-14 Jul.	
"OPR 438"		
15	NODC Files	
31-206		
Coast Guard.		
NODC Coding Forms		
SPENCER	1964: 05-14 Aug.	
"JWS CHARLIE"		
9	NODC Files	
31-207		
Woods Hole Oceanographic Institution.		
Punched Cards		
CHAIN	1959: 19 Apr.-17 Aug.	
"CRUISE 7"		
88	NODC Files	
310208		
Coast Guard. "International Ice Observation and Ice Patrol Service." 1950.		
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EVERGREEN	1941: 29 Mar.-19 Jul.	
"INTERNATIONAL ICE		

310208 - Continued

PATROL

231

NODC Files

31-209

Woods Hole Oceanographic Institution.

Punched Cards

CHAIN

"CRUISE 21"

1961: Oct.-Dec.

78

NODC Files

31-210

Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS I

"CRUISE 275"

1962: 01 Feb.-24 Mar.

119

NODC Files

310211

Navy Electronics Laboratory, San Diego, Calif.
"Oceanographic Measurements on a Cruise to the
Bering and Chukchi Seas." 1949.

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"PROBLEM 2A5"

1947: 27 Jul.-12 Aug.

41

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31-212

Woods Hole Oceanographic Institution.

31-212 - Continued

NODC Coding Forms

CRAWFORD

"CRUISE 118"

1964: 03-10 Oct.

20

NODC Files

31-213

University of Rhode Island.

Punched Cards

TRIDENT

1962: 09 Sep.-15 Oct.

TRIDENT

1963: 27 Mar.-20 Nov.

TRIDENT

1964: 06 Jan.-31 Oct.

197

NODC Files

31-214

Scripps Institution of Oceanography.

NODC Coding Forms

ARGO

"SWANSONG"

1961: Sep.-Nov.

97

NODC Files

31-215

Woods Hole Oceanographic Institution.

Reduced Data Cards

CRAWFORD

"CRUISE 115"

1964: 14-21 Aug.

31-125 - Continued

19 NODC Files

31-216 Naval Oceanographic Office.
NODC Coding Forms

REHOBOTH 1964: 25-29 Nov.
19 NODC Files

31-217 Naval Oceanographic Office.
NODC Coding Forms

GILLISS 1964: 21 Nov.-11 Dec.

29 NODC Files

31-218 Coast and Geodetic Survey.
NODC Coding Forms

PIONEER "OPR 394" 1965: 29 Jan.-06 Feb.

5 NODC Files

310219 Coast Guard. "Physical and Zoological Investigations in Bering Sea and Portions of the Arctic Ocean, Bering Sea Patrol." 1948.
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NORTHWIND 1948: 14 Jul.-14 Aug.

310219 - Continued

52 NODC Files

31-220 Coast Guard.
NODC Coding Forms

EVERGREEN 1964: 15 Mar.-28 Jul.
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432 NODC Files

31-221 Scripps Institution of Oceanography.
"Oceanic Observations of the Pacific 1950."
Univ. California Press, 1960.

HORIZON 1950: 07-08 Jan.
"CCOFI CRUISE 5001 (MLR-10)"
CREST 1950: 05-08 Jan.
"CCOFI CRUISE 5001 (MLR-10)"

33 NODC Files

31-222 Scripps Institution of Oceanography.
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Univ. California Press, 1960.

BLACK DOUGLAS 1950: 02-19 Feb.
"CCOFI CRUISE 5002 (MLR-11)"
CREST 1950: 03-13 Feb.
"CCOFI CRUISE 5002 (MLR-11)"

31-222 - Continued

HORIZON
"CCOFI CRUISE 5002
(MLR-11)"

1950: 31 Jan.-10 Feb.

31-225 - Continued

"CRUISE 65-A-14"

116

NODC Files

31-223

Coast Guard.

31-226
Naval Oceanographic Office.

NODC Coding Forms

SILAS BENT

1964: 23 Nov.-16 Dec.

1966: 19 Jun.-10 Jul.

MENDOTA
"OWS CHARLIE"
"LABRADOR CURRENT"

14

NODC Files

INGHAM
"OWS CHARLIE"
"LABRADOR CURRENT"

31-227
Coast Guard.

NODC Coding Forms

CAMPBELL

38

NODC Files

1966: 03-06 Jul.

31-224

Bureau of Commercial Fisheries, Biological Laboratory, Auke Bay, Alaska.

12

NODC Files

NODC Coding Forms

31-228
Naval Oceanographic Office.

MURRE II
MURRE II
MURRE II

1964: 21 Sep. to
1965: to
1966: 03 May

SILAS BENT

1966: 01 Mar.-20 Apr.

86

NODC Files

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31-225

Texas A&M University.

31-229

Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1950." Univ. California Press, 1960.

NODC Coding Forms

BLACK DOUGLAS

1950: 02-14 Mar.

ALAMITOS

"CCOFI CRUISE 5003"

31-229 - Continued

(MLR-12)"
 CREST "CCOFI CRUISE 5003
 (MLR-12)"
 HORIZON "CCOFI CRUISE 5003
 (MLR-12)"
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 (MLR-12)"

108
 31-230 Scripps Institution of Oceanography. "Oceanic
 Observations of the Pacific 1950." Univ. Calif-
 ornia Press, 1960.

BLACK DOUGLAS
 "CCOFI CRUISE 5004
 (MLR-13)"
 CREST "CCOFI CRUISE 5004
 (MLR-13)"
 HORIZON "CCOFI CRUISE 5004
 (MLR-13)"
 121
 NODC Files

310232 Johns Hopkins University, Chesapeake Bay Institute.
 1950.

Data Report no.2

BALANUS
 "CRUISE III"
 1949: 10-23 Oct.

310232 - Continued

LYDIA LOUISE
 "CRUISE III"
 115
 NODC Files
 1949: 19-25 Oct.

310233 Johns Hopkins University, Chesapeake Bay Institute.
 1950.

Data Report no.3

LYDIA LOUISE
 "CRUISE IV"
 MAURY "CRUISE IV"
 137
 NODC Files
 1950: 31 Mar.-10 Apr.
 1950: 25 Nov.-25 Apr.

310234 Johns Hopkins University, Chesapeake Bay Institute.
 1950.

Data Report no.4

LYDIA LOUISE
 "CRUISE V"
 "CRUISE VI"
 MAURY "CRUISE V"
 "CRUISE VI"
 1950: 20 May-19 Jul.
 1950: 20 May-19 Jul.

114
 NODC Files

310235 Johns Hopkins University, Chesapeake Bay Institute.
 1951.

Data Report no.5

310235 - Continued

MAURY
"CRUISE VII"
106
31-237
Naval Oceanographic Office.
NODC Coding Forms
UTE
5
31-238
Naval Oceanographic Office.
NODC Coding Forms
NORTHWIND
17
31-239
Naval Oceanographic Office.
NODC Coding Forms
GILLISS
75
310240
Texas A&M University, Dept. of Oceanography and
Meteorology. "Oceanographic Survey of the Gulf
of Mexico." 1954.
Originator's Data Sheets, Punched Cards & Research

310240 - Continued

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ALASKA
"CRUISE I"
38
31-241
Coast Guard.
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CAMPBELL
"OWS BRAVO"
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"OWS BRAVO"
10
310242
Scripps Institution of Oceanography.
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49
310244
Geological Survey. "Salinity of the Water of
Chesapeake Bay." 1929.
Professional Paper 154-C
FISH HAWK
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1950: 14 Oct.-02 Nov.
NODC Files
1964: 14-17 Oct.
1964: 05-19 Aug.
NODC Files
1964: 01 Apr.-10 Nov.
NODC Files
1951: 22 Apr.-09 May
NODC Files & DNO GC521
T35R4
1964: 09-27 Sep.
1964: 01-16 Dec.
NODC Files
1936: 24 Jan.-13 Jul.
NODC Files
1920: 06 Mar. to
1921: to
1922: 26 Mar.

310244 - Continued

642 DNO GC115 G.S. PP 154-C

31-245 Woods Hole Oceanographic Institution.

Punched Cards

CIAIN
"CRUISE 28"

17 NODC Files

31-246 Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS I
"CRUISE 292"

11 NODC Files

31-247 Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS II
1965: 25 Jan.-22 Oct.

403 NODC Files

31-248 Woods Hole Oceanographic Institution.

Punched Cards

GOSMOLD
"CRUISE 69"
1965: 22 Apr.-05 May

31-248 - Continued

"CRUISE 69 B"
"CRUISE 70"
"CRUISE 71"

6 NODC Files

31-249 Woods Hole Oceanographic Institution.

Punched Cards

CRAWFORD
"CRUISE 142"
1966: 04-20 Jun.

24 NODC Files

31-250 Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS II
"CRUISE 18"
1966: 11-23 Jan.

34 NODC Files

31-251 Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS II
"CRUISE 9"
1964: 20 Jan.-30 Apr.

174 NODC Files

31-252 Woods Hole Oceanographic Institution.

31-252 - Continued

Reduced Data Cards

CHAIN "CRUISE 20" 1961: 21-28 Jul.

21 NODC Files

31-253 Woods Hole Oceanographic Institution.

Punched Cards

CRAWFORD "CRUISE 131" "CRUISE 132" "CRUISE 133" 1965: 10 Oct.-21 Nov.

28 NODC Files

31-254 Woods Hole Oceanographic Institution.

Reduced Data Sheets

CHAIN "CRUISE 58" 1966: 29 Apr.-05 May

5 NODC Files

31-255 Woods Hole Oceanographic Institution.

Punched Cards

CRAWFORD "CRUISE 150" 1966: 15-22 Oct.

8 NODC Files

31-259 Coast Guard.

NODC Coding Forms

ABSECON 1965: 08-11 Feb.

10 NODC Files

31-261 Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1950". Univ. California Press, 1960.

BLACK DOUGLAS "CCOFI CRUISE 5005 (MLR-14)" 1950: 03-18 May

CREST "CCOFI CRUISE 5005 (MLR-14)" 1950: 03-16 May

HORIZON "CCOFI CRUISE 5005 (MLR-14)" 1950: 03-16 May

129 NODC Files

31-262 Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1950". Univ. California Press, 1960.

BLACK DOUGLAS "CCOFI CRUISE 5006 (MLR-15)" 1950: 06-23 Jun.

CREST "CCOFI CRUISE 5006 (MLR-15)" 1950: 08-21 Jun.

PAOLINA-T 1950: 12-22 Jun.

31-262 - Continued

"CCOFI CRUISE 5006
(MLR-15)"

105

NODC Files

31-263

Scripps Institution of Oceanography. "Oceanic
Observations of the Pacific 1950." Univ. Cali-
fornia Press, 1960.

BLACK DOUGLAS

"CCOFI CRUISE 5007
(MLR-16)"

CREST

"CCOFI CRUISE 5007
(MLR-16)"

PAOLINA-T

"CCOFI CRUISE 5007
(MLR-16)"

140

NODC Files

31-264

Scripps Institution of Oceanography. "Oceanic
Observations of the Pacific 1950." Univ. Cali-
fornia Press, 1960.

BLACK DOUGLAS

"CCOFI CRUISE 5008
(MLR-17)"

CREST

"CCOFI CRUISE 5008
(MLR-17)"

PAOLINA-T

"CCOFI CRUISE 5008
(MLR-17)"

96

NODC Files

31-265

Scripps Institution of Oceanography. "Oceanic
Observations of the Pacific 1950." Univ. Cali-
fornia Press, 1960.

BLACK DOUGLAS

"CCOFI CRUISE 5009
(MLR-18)"

CREST

"CCOFI CRUISE 5009
(MLR-18)"

PAOLINA-T

"CCOFI CRUISE 5009
(MLR-18)"

130

NODC Files

31-266

Scripps Institution of Oceanography. "Oceanic
Observations of the Pacific 1950." Univ. Cali-
fornia Press, 1960.

BLACK DOUGLAS

"CCOFI CRUISE 5010
(MLR-19)"

CREST

"CCOFI CRUISE 5010
(MLR-19)"

E.W. SCRIPPS

"CCOFI CRUISE 5010
(MLR-19)"

186

NODC Files

31-267

Naval Oceanographic Office.

NODC Coding Forms

31-267 - Continued

BERING STRAIT

72

NODC Files

1964: 25 Jul.-14 Aug.

31-268

Naval Oceanographic Office.

NODC Coding Forms

REHOBOTH

1964: 21-28 Jan.

21

NODC Files

31-269

Scripps Institution of Oceanography.

NODC Coding Forms

ARGO

"DODO EXPEDITION, LEG VI"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

1964: 08 Aug.-05 Sep.

109

NODC Files

31-270

Coast and Geodetic Survey, Seattle.

NODC Coding Forms

SURVEYOR

"OPR 421"

1964: 15 Mar.-30 Sep.

4

NODC Files

31-271

Woods Hole Oceanographic Institution.

31-271 - Continued

Reduced Data Cards

CHAIN

"CRUISE 2"

CHAIN

"CRUISE 11"

1958: 08-18 Dec.

1960: 30 Jan.-19 Feb.

46

NODC Files

31-272

Scripps Institution of Oceanography. "Oceanic
Observations of the Pacific 1950." Univ. Cali-
fornia Press, 1960.

BLACK DOUGLAS

"CCOFI CRUISE 5011
(MLR-20)"

1950: 09-28 Nov.

CREST

"CCOFI CRUISE 5011
(MLR-20)"

1950: 09-21 Nov.

PAOLINA-T

"CCOFI CRUISE 5011
(MLR-20)"

1950: 11-18 Nov.

E.W. SCRIPPS

"CCOFI CRUISE 5011
(MLR-20)"

1950: 11-17 Nov.

140

NODC Files

310273

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graphy Part I." 1951.

Special Scientific Report-Fisheries no.54

HUGH M. SMITH

1950: 26 Jan.-02 Mar.

49

DNO SH11 FWS no.54

310276	Naval Oceanographic Office.	310279	Coast Guard. "International Ice Observation and Ice Patrol Service." 1951.
Tabular Data		Bulletin no.36	
BURTON ISLAND "CRUISE II"	1951: 31 Jan.-23 Feb.	EVERGREEN "INTERNATIONAL ICE PATROL"	1950: 06 Apr.-05 Aug.
26	NODC Files		
31-277	Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1951." Univ. California Press, 1963.	307	NODC Files
CREST "CCOFI CRUISE 5101 (MLR-21)"	1951: 10-22 Jan.	310281	Texas A&M University, Dept. of Oceanography and Meteorology. "Oceanographic Survey of the Gulf of Mexico." 1954.
HORIZON "CCOFI CRUISE 5101 (MLR-21)"	1951: 10-23 Jan.		Originator's Data Sheets, Punched Cards & Research Reports, vol. 1, sec.6
H.B. SCOFIELD "CCOFI CRUISE 5101 (MLR-21)"	1951: 19-29 Jan.	ALASKA "CRUISE 2" "CRUISE 3"	1951: 05 Jun.-21 Aug.
126	NODC Files	86	NODC Files & DNO GC521 T3R4
310278	Coast Guard. "International Ice Observation and Ice Patrol Service." 1951.	310283	Johns Hopkins University, Chesapeake Bay Institute. "Data Report no.7." 1951.
Bulletin no.35		Ref. no.51-13	
EVERGREEN "INTERNATIONAL ICE PATROL"	1949: 05 Apr.-20 Jul.	NOT GIVEN "OPERATION OYSTER SPAT I" "OPERATION OYSTER SPAT II"	1950: 17 Jul.-03 Sep.
253	NODC Files	444	NODC Files

in the Western Atlantic." 1917.

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LYDIA LOUISE
"OPERATION RAP"
MAURY
"OPERATION RAP"

1951: 15-24 Mar.

NODC Files

Woods Hole Oceanographic Institution.

ATLANTIS I
"CRUISE 274"
ATLANTIS I
"CRUISE 287"

1962: 13-14 Oct.

NODC Files

Scripps Institution of Oceanography. "Waters off the Coast of Southern California." 1941.

BLUEFIN

1937: 25 Mar.-21 Jul.

DNO QH95 C3 v.4,
no.10

Bureau of Fisheries. "Oceanography Explorations

Bureau of Fisheries.

1914: 21 Jan.-23 Mar.

DNO GC75 U6BF no.833

Woods Hole Oceanographic Institution.

CRAWFORD

CRAWFORD
"CRUISE 78"
"CRUISE 79"

1963: 24 May-04 Nov.

nODC Files

Woods Hole Oceanographic Institution.

ATLANTIS I

ATLANTIS I
"CRUISE 295"
"CRUISE 297"

1963: 24 Jul.-24 Aug.

NODC Files

Woods Hole Oceanographic Institution.

CHAIN

CHAIN

1961: 11-14 Jan.

1962: 12-16 Jan.

31-291 - Continued
"CRUISE 22"

26 NODC Files

310292 Navy Electronics Laboratory, San Diego, Calif.
Tabular Data

MARYSVILLE 1951: 15 Feb.-17 Jul.
9 NODC Files

31-293 Naval Oceanographic Office.
NODC Coding Forms

KLAWATH 1964: 27 Sep.-17 Oct.
75 NODC Files

31-296 Naval Oceanographic Office.
NODC Coding Forms

EDISTO 1964: 31 Aug.-25 Sep.
54 NODC Files

310297 Coast and Geodetic Survey.
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PIONEER 1953: 18 Jul.-14 Sep.

310297 - Continued
11 NODC Files

310298 Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1957.
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T.N. GILL 1953: 13 Oct.
"CRUISE 4"

1 NODC Files

310299 Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1951." Univ. California Press, 1963.
BLACK DOUGLAS 1951: 16-25 Feb.
"CCOFI CRUISE 5102 (MLR-22)"
CREST 1951: 06-23 Feb.
"CCOFI CRUISE 5102 (MLR-22)"

101 NODC Files

31-300 Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1951." Univ. California Press, 1963.
BLACK DOUGLAS 1951: 08-23 Mar.
"CCOFI CRUISE 5103 (MLR 23)"
CREST 1951: 03-18 Mar.
"CCOFI CRUISE 5103"

31-300 - Continued

(MLR 23)"
HORIZON
"CCOFI CRUISE 5103
(MLR 23)"

1951: 08-22 Mar.

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310301

Woods Hole Oceanographic Institution. "Hydrographic and Chemical Observations, Scientific Report no.6." 1949.

Reference 49-31

ATLANTIS I
"CRUISE 151"
ATLANTIS I
"CRUISE 151"

1947: 19 Dec. to
1948: 12 Jun.

116

DNO Q115 A88 no.6

310302

Woods Hole Oceanographic Institution.

Reduced Data Cards

ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I

1931: 26 Jul. to
1932: to
1933: to
1934: to
1935: to
1936: to
1937: to
1938: to
1939: to
1940: to
1941: to
1942:

310302 - Continued

ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I
ATLANTIS I

1945: to
1946: to
1947:
1949: to
1950: 02 Nov.

4343

NODC Files

310303

Woods Hole Oceanographic Institution.

Reduced Data Cards

ALBATROSS III
"OPERATION CABOT"
ATLANTIS I
"OPERATION CABOT"
CARYN
"OPERATION CABOT"

1950: 11-14 Jun.
1950: 12-14 Jun.
1950: 13-14 Jun.

17

NODC Files

310304

Fish and Wildlife Service.

Originator's Log Sheets

ALASKA
"JEZEBEL"

1951: 29-30 Sep.

4

NODC Files

31-305

Naval Oceanographic Office.

NODC Coding Forms

CHARLES H. DAVIS

1964: 03-09 Oct.

31-305 - Continued

"ASWEPs PAC-2"

24

NODC Files

31-307

Scripps Institution of Oceanography. "Data Report." 1952.

SIO Ref. 52-24

BLACK DOUGLAS

"CCOFI CRUISE 5202 (MLR 34)"

CREST

"CCOFI CRUISE 5202 (MLR 34)"

HORIZON

"CCOFI CRUISE 5202 (MLR 34)"

116

DNO GC101 S4 no.34

1952: 13-25 Feb.

1952: 06-15 Feb.

1952: 06-21 Feb.

31-308

Scripps Institution of Oceanography. "Oceanographic Observations of the Pacific 1952." Univ. California Press, 1965.

PAOLONIA-T

"CCOFI CRUISE 5203 (MLR 35)"

HORIZON

"CCOFI CRUISE 5203 (MLR 35)"

CREST

"CCOFI CRUISE 5203 (MLR 35)"

BLACK DOUGLAS

"CCOFI CRUISE 5203 (MLR 35)"

1952: 05-06 Mar.

1952: 05-17 Mar.

1952: 08-16 Mar.

1952: 24 Mar.-03 Apr.

31-308 - Continued

E.W. SCRIPPS

"CCOFI CRUISE 5203 (MLR 35)"

1952: 20-30 Mar.

180

DNO GC101 S4 no.35

310309

Naval Oceanographic Office.

Originator's Log Sheets

PURSUIT

1953: 01 Feb.-03 May

50

NODC Files

310310

Fish and Wildlife Service.

T.N. GILL

1952: 16 Aug.

3

31-311

Scripps Institution of Oceanography. "Data Report." 1958.

SIO Ref. 58-15

CREST

"CCOFI CRUISE 5306 (MLR 49)"

1953: 10-17 Jun.

E.W. SCRIPPS

"CCOFI CRUISE 5306 (MLR 49)"

1953: 01-03 Jul.

HORIZON

"CCOFI CRUISE 5306 (MLR 49)"

1953: 05-16 Jun.

PAOLONIA-T

1953: 11-19 Jun.

31-311 - Continued

"CCOFI CRUISE 5306
(MLR 49)"
YELLOWFIN
"CCOFI CRUISE 5306
(MLR 49)"

1953: 07-11 Jun.

167

DNO GC101 S4 no.49

31-312

Scripps Institution of Oceanography. "Data Report."
1958.

SIO Ref. 58-23

CREST
"CCOFI CRUISE 5307
(MLR 50)"
HORIZON

1953: 09-20 Jul.

1953: 12-24 Jul.

"CCOFI CRUISE 5307
(MLR 50)"
E.W. SCRIPPS
"CCOFI CRUISE 5307
(MLR 50)"

1953: 24-27 Jul.

131

DNO CC101 S4 no.50

31-313

Scripps Institution of Oceanography. "Data Report."
1958.

Original Data Summary Sheets & SIO Ref. 58-23

CREST
"CCOFI CRUISE 5308
(MLR 51)"
HORIZON
"CCOFI CRUISE 5308
(MLR 51)"

1953: 06-29 Aug.

1953: 20-29 Aug.

31-313 - Continued

113

NODC Files & DNO
GC101 S5 no.51

31-314

Scripps Institution of Oceanography. "Data Report."
1958.

SIO Ref. 58-4

CREST

"CCOFI CRUISE 5309
(MLR 52)"
HORIZON

1953: 09-17 Sep.

1953: 09-13 Sep.

"CCOFI CRUISE 5309
(MLR 52)"

40

DNO GC101 S4 no.52

31-315

Scripps Institution of Oceanography. "Data Report."
1958.

SIO Ref. 58-44

CREST

"CCOFI CRUISE 5310
(MLR 53)"
PAOLINA-T

1953: 07-23 Oct.

1953: 20-21 Oct.

"CCOFI CRUISE 5310
(MLR 53)"

72

DNO GC101 S4 no.53

31-316

Scripps Institution of Oceanography. "Data Report."
1958.

SIO Ref. 58-44

31-316 - Continued

PAOLINA-T "CCOFI CRUISE 5311 (MLR 54)"	1953: 09-14 Nov.	31-320 Scripps Institution of Oceanography.
20	DNO GC101 S4 no. 54	Original Data Summary Sheets
31-317 Scripps Institution of Oceanography. "Data Report." 1958.		1952: 21-27 Jan.
SIO Ref. 58-44		1952: 09-22 Jan.
CREST "CCOFI CRUISE 5312 (MLR 55)"	1953: 03-13 Dec.	1952: 16-19 Jan.
PAOLINA-T "CCOFI CRUISE 5312 (MLR 55)"	1953: 03-12 Dec.	
84	DNO GC101 S4 no. 55	102
310318 Coast and Geodetic Survey.		31-321 Scripps Institution of Oceanography. "Oceano- graphic Observations of the Pacific 1952." Univ. California Press, 1965.
Originator's Log Sheets		1952: 05-23 Apr.
HYDROGRAPHER	1953: 23 Oct.	1952: 02-23 Apr.
1	NODC Files	1952: 04-13 Apr.
310319 Coast and Geodetic Survey.		1952: 26-28 Apr.
Originator's Log Sheets		
HYDROGRAPHER	1959: 25 Apr.-16 Oct.	NODC Files
24	NODC Files	212

31-322	Scripps Institution of Oceanography. "Data Report." 1956.		31-324	Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1952." Univ. California Press, 1965.
SIO Ref. 56-24			CREST	1952: 10-23 Jul.
BLACK DOUGLAS			"CCOFI CRUISE 5207 (MLR-39)"	
"CCOFI CRUISE 5205 (MLR-37)"	1952: 09-20 May		PAOLINA-T	1952: 09-23 Jul.
PAOLINA-T			"CCOFI CRUISE 5207 (MLR-39)"	
"CCOFI CRUISE 5205 (MLR-37)"	1952: 20-26 May		SPENCER F. BAIRD	1952: 02-12 Jul.
SPENCER F. BAIRD			"CCOFI CRUISE 5207 (MLR-39)"	
"CCOFI CRUISE 5205 (MLR-37)"	1952: 09-25 May			
E.W. SCRIPPS			153	DNO GC101 S4 no.39
"CCOFI CRUISE 5205 (MLR-37)"	1952: 14-17 May			
133	DNO GC101 S4 no.37		31-325	Scripps Institution of Oceanography. "Data Report." 1957.
31-323	Scripps Institution of Oceanography. "Data Report." 1956.		SIO Ref. 57-20	
SIO Ref. 56-27			SPENCER F. BAIRD	1952: 12-17 Aug.
CREST			"CCOFI CRUISE 5208 (MLR-40)"	
"CCOFI CRUISE 5206 (MLR-38)"	1952: 08-21 Jun.		CREST	1952: 09-19 Aug.
SPENCER F. BAIRD			"CCOFI CRUISE 5208 (MLR-40)"	
"CCOFI CRUISE 5206 (MLR-38)"	1952: 08-16 Jun.		BLACK DOUGLAS	1952: 08-19 Aug.
YELLOWFIN			E.W. SCRIPPS	1952: 09-14 Aug.
"CCOFI CRUISE 5206 (MLR-38)"	1952: 03-13 Jun.			
147	DNO GC101 S4 no.38		135	DNO GC101 S4 no.40

31-328 - Continued

SIO Ref. 57-22 & Original Data Summary Sheets

BLACK DOUGLAS
1952: 08-21 Nov.

CREST
1952: 06-18 Nov.

"CCOFI CRUISE 5211
(MLR-43)"

96 NODC Files

329 Scripps Institution of Oceanography. "Data Report." 1957.

Scripps Institution of Oceanography.
1957.

Original Data Summary Sheets & SI0 Ref. 5/-32

Original Data Summary Sheets & SIO Ref. 57-32

31-327
Scripps Institution of Oceanography. "Data Report." 1957.

(MLR-44)"
E.W. SCRIPPS
1953: 16-18 Jan.

(MLR-44)"
YELLOWFIN
1953: 09-22 Jan.

"CCOFI CRUISE 5301
(MLR-44)"

(MLR-44)"

122
NODC Files & DNO
GC101 S4 no.44

NODC Files & DNO
GC101 S4 no.42

Scripps Institution of Oceanography.
1957.

31-328
Scripps Institution of Oceanography. "Data Report."
1957.

Original Data Summary Sheets & SIO Ref. 57-33
CREST 1953: 07-26 Feb.

31-330 - Continued

(MLR-45)"
E.W. SCRIPPS
"CCOFI CRUISE 5302
(MLR-45)"
PAOLINA-T
"CCOFI CRUISE 5302
(MLR-45)"
102
31-331
Scripps Institution of Oceanography. "Data Report."
1957.

Original Data Summary Sheets & SIO Ref. 57-37

CREST
"CCOFI CRUISE 5303
(MLR-46)"
E.W. SCRIPPS
"CCOFI CRUISE 5303
(MLR-46)"
SPENCER F. BAIRD
"CCOFI CRUISE 5303
(MLR-46)"
145

NODC Files & DNO
GC101 S4 no.46

31-332
Scripps Institution of Oceanography. "Data Report."
1957.

Original Data Summary Sheets & SIO Ref. 58-13
SPENCER F. BAIRD
"CCOFI CRUISE 5304
1953: 07-15 Apr.

31-332 - Continued

(MLR-47)"
CREST
"CCOFI CRUISE 5304
(MLR-47)"
HORIZON
"CCOFI CRUISE 5304
(MLR-47)"
PAOLINA-T
"CCOFI CRUISE 5304
(MLR-47)"
E.W. SCRIPPS
"CCOFI CRUISE 5304
(MLR-47)"
1953: 08-18 Apr.
1953: 08-10 Apr.
1953: 12-18 Apr.
1953: 31 Mar.-03 Apr.

186

NODC Files & DNO
GC101 S4 no.47

310333
Scripps Institution of Oceanography. "Data Report."
1958.

SIO Ref. 58-14

CREST
"CCOFI CRUISE 5305
(MLR-48)"
HORIZON
"CCOFI CRUISE 5305
(MLR-48)"
PAOLINA-T
"CCOFI CRUISE 5305
(MLR-48)"
E.W. SCRIPPS
"CCOFI CRUISE 5305
(MLR-48)"
YELLOWFIN
"CCOFI CRUISE 5305
(MLR-48)"
1953: 30 Apr.-29 May
1953: 06-18 May
1953: 08-29 May
1953: 29 Apr.-01 May
1953: 07-18 May

310333 - Continued

193
 310334
 Scripps Institution of Oceanography. "Data Report."
 1958.
 Original Data Summary Sheets & SIO Ref. 58-38
 CREST
 "CCOFI CRUISE 5401
 (MLR-56)"
 HORIZON
 "CCOFI CRUISE 5401
 (MLR-56)"
 N.B. SCOFIELD
 "CCOFI CRUISE 5401
 (MLR-56)"

95

NODC Files & DNO
 GC101 S4 no.56

31-335

Scripps Institution of Oceanography. "Data Report."
 1958.
 Original Data Summary Sheets & SIO Ref. 58-38
 CREST
 "CCOFI CRUISE 5402
 (MLR-57)"
 HORIZON
 "CCOFI CRUISE 5402
 (MLR-57)"

48

NODC Files

31-336

Scripps Institution of Oceanography. "Data Report."

31-336 - Continued

1958.

SIO Ref. 58-65

CREST
 "CCOFI CRUISE 5403
 (MLR-58)"
 HORIZON
 "CCOFI CRUISE 5403
 (MLR-58)"
 N. B. SCOFIELD
 "CCOFI CRUISE 5403
 (MLR-58)"

73

DNO GC 10154 no.58

31-337

Scripps Institution of Oceanography. "Data Report."
 1958.

SIO Ref. 58-65

CREST
 "CCOFI CRUISE 5404
 (MLR-59)"
 HORIZON
 "CCOFI CRUISE 5404
 (MLR-59)"
 E. W. SCRIPPS
 "CCOFI CRUISE 5404
 (MLR-59)"
 SPENCER R. BAIRD
 "CCOFI CRUISE 5404
 (MLR-59)"

85

DNO GC 10154 no.59

31-340 - Continued

31-338	Scripps Institution of Oceanography. "Data Report." 1959.	(MLR-62)"	1954: 15-23 Jul.
		HORIZON	
		"CCOFI CRUISE 5407	
		(MLR-62)"	
		PAOLINA-T	
		"CCOFI CRUISE 5407	
		(MLR-62)"	
		54	DNO GC 10154 no.62
		31-341	
		Scripps Institution of Oceanography. "Data Report."	
		SIO Ref. 59-42	
		CREST	
		"CCOFI CRUISE 5408	1954: 13 Aug.-01 Sep.
		(MLR 63)"	
		SPENCER F. BAIRD	
		"CCOFI CRUISE 5408	1954: 27 Aug.-09 Sep.
		(MLR 63)"	
		63	DNO GC101 S4 no.63
		31-342	
		Scripps Institution of Oceanography. "Oceanographic Observations of the Pacific 1954." Univ. California Press, 1965.	
		PAOLINA-T	
		"CCOFI CRUISE 5409	1954: 24 Sep.-17 Oct.
		(MLR 64)"	
		23	NODC Files
		31-343	
		Scripps Institution of Oceanography. "Data Report." 1959.	

31-338	Scripps Institution of Oceanography. "Data Report." 1959.		
		SIO Ref. 59-15	
		CREST	
		"CCOFI CRUISE 5405	1954: 09-24 May
		(MLR-60)"	
		HORIZON	
		"CCOFI CRUISE 5405	1954: 07-21 May
		(MLR-60)"	
		74	DNO GC 10154 no.60
		31-339	
		Scripps Institution of Oceanography. "Data Report." 1959.	
		SIO Ref. 59-16	
		CREST	
		"CCOFI CRUISE 5406	1954: 05-22 Jun.
		(MLR-59-16)"	
		HORIZON	
		"CCOFI CRUISE 5406	1954: 04-20 Jun.
		(MLR-59-16)"	
		80	DNO GC 10154 no.61
		31-340	
		Scripps Institution of Oceanography. "Data Report." 1959.	
		SIO Ref. 59-35	
		CREST	
		"CCOFI CRUISE 5407	1954: 10-21 Jul.

31-343 - Continued

Original Data Summary Sheets & SIO Ref. 59-43

CREST 1954: 06-16 Oct.

"CCOFI CRUISE 5410
(MLR 65)"

HORIZON 1954: 17-24 Oct.

"CCOFI CRUISE 5410
(MLR 65)"

48 NODC Files & DNO GC101
S4 no.65

310344 Coast and Geodetic Survey.

Originator's Log Sheets

PATHFINDER 1954: 01 Jun.-15 Sep.

5 NODC Files

31-345 Scripps Institution of Oceanography. "Data Report." 1960.

Original Data Summary Sheets & SIO Ref. 60-1

CREST 1954: 10 Nov.-14 Dec.

"CCOFI CRUISE 5411
(MLR 66)"

"CCOFI CRUISE 5412
(MLR 67)"

PAOLINA-T

"CCOFI CRUISE 5412
(MLR 67)"

75 NODC Files & DNO GC101
S4 no.66, 67

31-346

Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1955. The Norpac Data." Univ. California Press and Univ. Tokyo Press, 1960.

BLACK DOUGLAS 1955: 07 Aug.-07 Sep.
"NORPAC"

"CCOFI CRUISE 5508"

HORIZON 1955: 10 Aug.-02 Sep.

"NORPAC"

"CCOFI CRUISE 5508"

SPENCER F. BAIRD 1955: 10 Aug.-16 Sep.

"NORPAC"

"CCOFI CRUISE 5508"

STRANGER 1955: 10 Aug.-21 Sep.

"NORPAC"

"CCOFI CRUISE 5508"

164 NODC Files

31-347

Coast and Geodetic Survey.

NODC Coding Forms

EXPLORER (U.S.) 1963: 19-24 Jul.
"OPR 438"

14 NODC Files

310348

Coast and Geodetic Survey.

Originator's Log Sheets

EXPLORER (U.S.) 1954: 09 Sep.

1 NODC Files

310353 - Continued

310349	Coast and Geodetic Survey. Originator's Coding Forms HYDROGRAPHER 32	1955: 05 May-15 Sep. NODC Files	
310351	Scripps Institution of Oceanography. "Records of Observations." 1942.		NODC Files
	vol. 1, no.1 E.W. SCRIPPS 173	1938: 15 Feb.-18 Dec. NODC Files	
310352	Scripps Institution of Oceanography. "Records of Observations." 1943. Original Data & vol. 1, no.2 BUSHNELL "CRUISE 7" "CRUISE 8" E.W. SCRIPPS "CRUISE 7" "CRUISE 8"		1941: 27 Mar.-21 Nov. NODC Files
	147	NODC Files & DNO Q115 Scripps 1938-1941	
310353	Scripps Institution of Oceanography. "Records of Observations." 1944.		1933: 12 Jun.-11 Aug. 1934: 26 Jul.-24 Aug. NODC Files
	vol. 1, no.3 E.W. SCRIPPS "CRUISE 10" "CRUISE 11" "CRUISE 12" "CRUISE 13" "CRUISE 14" "CRUISE 15" "CRUISE 16"		1940: 12 Mar.-19 Jun.
	231		NODC Files
310354	Scripps Institution of Oceanography. "Records of Observations." 1944.		
	vol. 1, no.4 E.W. SCRIPPS 391		
310355	University of Washington, Dept. of Oceanography. "Physical and Chemical Investigations in the Bering Sea and Portions of the North Pacific Ocean." 1938. Publications in Oceanography vol. 3, no.2 and Appendix GANNET CHELAN 164		
310356	University of Washington. "Characteristics of the		

310356 - Continued

Waters in Sections from Dutch Harbor, Alaska, to the Strait of Juan de Fuca and from the Strait of Juan de Fuca to Hawaii." 1940.

Publications in Oceanography vol. 3, no.3

OGALA

1935: 29 Jul.-18 Aug.

26

DNO GC1 W4 v.3 no.3

310357

University of Washington. "Physical and Chemical Investigations Bering Sea, Bering Strait, Chukchi Sea." 1942.

Publications in Oceanography vol. 3, no.4

NORTHWIND

1937: 05 Jun.-19 Sep.

NORTHWIND

1938: 27 Jul.-14 Sep.

382

DNO GC1 W3 v.3 no.4

31-358

Naval Oceanographic Office.

NODC Coding Forms

COMPASS ISLAND

1965: 05-10 Mar.

3

NODC Files

310359

Naval Oceanographic Office and Navy Electronics Laboratory.

Original Data

MARYSVILLE

1950: 02-22 Aug.

310359 - Continued

29

NODC Files

310360

Texas A&M University, Dept. of Oceanography and Meteorology. "Physical and Chemical Data Gulf of Mexico."

Original Tabular Data

ALASKA

1952: 09-27 Jan.

"CRUISE 4-2A"

38

NODC Files

31-361

Naval Oceanographic Office.

NODC Coding Forms

GILLISS

1964: 30 Sep.-20 Oct.

7

NODC Files

310362

Texas A&M University, Dept. of Oceanography and Meteorology. "Physical and Chemical Data Gulf of Mexico."

Original Tabular Data

ALASKA

1952: 22 May-05 Jun.

"CRUISE 5-2C"

46

NODC Files

310363

Woods Hole Oceanographic Institution.

310363 - Continued

Reduced Data Cards

PHYSALIA
ANTON DOHRN
ANTON DOHRN
CARYN
CARYN
CARYN
CARYN
RELANCE
ALPATROSS III

1946: 23 Jan.-13 Jul.
1946: 04 Aug. to
1947: 05 Jun.
1948: 02 Apr.-28 Oct.
1949: 28 Apr.-17 Sep.
1951: 21 Jul.-27 Oct.
1952: 26 Aug.
1948: 19 Mar.-01 May
1951: 09-18 May

NODC Files

545

310364

Woods Hole Oceanographic Institution. "Oceanographic Results of Project Ski-Jump II in the Polar Seas."

WHOI Ref. 53-23

NOT GIVEN
"SKIJUMP I"
NOT GIVEN
"SKIJUMP II"

1951: 01 & 21 Apr.-03 May
1952: 11-26 Mar.

8

DNO Periodicals

31-365

Columbia University, Lamont Geological Observatory.

Originator's Coding Forms

VEMA
"CRUISE 18"
"INTERNATIONAL INDIAN OCEAN EXPEDITION"
VEMA

1961: 28 Dec. to

1962: 07 Jul.

31-365 - Continued

"CRUISE 18"
"INTERNATIONAL INDIAN OCEAN EXPEDITION"

NODC Files

14

310366

Woods Hole Oceanographic Institution. "Scientific Results of the Nautilus Expedition: Pt. I, Introduction and Narrative; Pt. II, Oceanography; Pt. III, Echo Soundings." 1933.

Papers in Physical Oceanography and Meteorology vol. 2, no.1, WHOI and MIT

NAUTILUS (U.S.)

1931: 27 Aug.-05 Sep.

DNO QC851 P15 .2

9

31-367

Bureau of Commercial Fisheries, Biological Laboratory, Auke Bay, Alaska.

NODC Coding Forms

MURRE II

1963: 07 Mar.-09 Nov.

HERON

1963: 28 Apr.-04 Jun.

CORDOVA SKIFF

1963: 22 Jun.-03 Sep.

"AUKE BAY MONITOR"

24

NODC Files

310368

Naval Oceanographic Office.

Hydrographic Data Sheets

EDISTO

1952: 27 May-29 Aug.

310368 - Continued

69 NODC Files

310369 Naval Oceanographic Office.

Original Data Sheets

EDISTO 1951: 08 Jun.-03 Sep.

45 NODC Files

310370 Naval Oceanographic Office.

Original Data Sheets & Deck Log

MARYSVILLE 1952: 24 Apr.-03 Jun.

"OPERATION SHUTTLE"

64 NODC Files

31-371 Naval Oceanographic Office.

NODC Coding Forms

THOR (U.S.) 1964: 13 Sep.-30 Nov.

72 NODC Files

31-372 Woods Hole Oceanographic Institution. "U.S. Program in Biology, International Indian Ocean Expedition." 1964-65.

Final Cruise Reports, 2 v

ANTON BRUUN 1963: 08 Aug.-10 Dec.

31-372 - Continued

"CRUISE 3"

"CRUISE 4A"

"CRUISE 4B"

"INTERNATIONAL INDIAN OCEAN EXPEDITION"

56 NODC Files

31-373 Naval Oceanographic Office.

Original Data Sheets & Deck Log

ATKA 1952: 28 Jan.-18 Feb.

53 NODC Files

310375 Naval Oceanographic Office.

Original Data Sheets

EDISTO 1950: 20 Jul.-25 Aug.

"NANOOK 1950"

16 NODC Files

310376 Woods Hole Oceanographic Institution. "Oceanographic Program of the U.S. Navy Task Force 80 Arctic Operation." 1949.

WT I Ref. 49-4

EASTWIND 1948: 19 Jul.-11 Sep.

19 DKO GC411 W8 1948

310382 - Continued

310378	Naval Oceanographic Office.	Oceanographic Data Sheets	
	Original Data Sheets & Revised Coding Forms	MAURY (USN)	1950: 04 Dec. to
	ATKA	MAURY (USN)	1951: 20 Apr.
	27	74	NODC Files
	NODC Files		
31-379	Naval Oceanographic Office.	310383	
	NODC Coding Forms	Naval Oceanographic Office.	
	MATAGORDA	Original Data Sheets	
	72	TANNER	1952: 09-17 Apr.
	NODC Files	12	NODC Files
310380	Naval Oceanographic Office.	310384	
	NODC Coding Forms	Naval Oceanographic Office.	
	ATKA	Original Data Sheets	
	34	ALASKA	1952: 03-10 Aug.
	NODC Files	"JEZEHEL A"	
		5	NODC Files
310381	Naval Oceanographic Office.	310386	
	NODC Coding Forms	Fish and Wildlife Service.	
	EDISTO	Original Data Sheets	
	7	T.N. GILL	1952: 30 Sep.-02 Oct.
	NODC Files	22	
310382	Naval Oceanographic Office.	310387	
		Fish and Wildlife Service.	

310387 - Continued

Original Data Sheets	1952. 07-09 Nov.	310391	Naval Oceanographic Office.
T.N. GILL			Oceanographic Data Sheet
17			1933: 13 Jun.-12 Aug.
310388			5 NODC Files
Fish and Wildlife Service.			
Original Data Sheets		310392	Fish and Wildlife Service.
T.N. GILL	1952: 1F-16 Dec.		Oceanographic Data Sheet
6	NODC Files		T.N. GILL
310389			1952: 20-21 Nov.
Fish and Wildlife Service. "Physical, Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1956.		2	NODC Files
Special Scientific Report-Fisheries no.178		310393	Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1956.
T.N. GILL	1953: 12-15 Feb.		Special Scientific Report-Fisheries no.198
"CRUISE 1-STD"			T.N. GILL
9	NODC Files		1953: 19-21 Apr.
310390			10 NODC Files
Fish and Wildlife Service. "Physical, Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1956.			310394
Special Scientific Report-Fisheries no.178			Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1956.
T.N. GILL	1953: 17 Feb.-07 Mar.		Special Scientific Report-Fisheries no.198
"CRUISE 1-REG"			T.N. GILL
49	NODC Files		1953: 23 Apr.-12 May

310394 - Continued

"CRUISE 2"

77

NODC Files

310395

Fish and Wildlife Service.

Oceanographic Data Sheets

T.N. GILL

1952: 12-13 Jul.

7

310396

Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1956.

Special Scientific Report-Fisheries no.198

T.N. GILL

"CRUISE 2"

1953: 17 Apr.-14 May

9

NODC Files

31-397

Coast Guard.

NODC Coding Forms

BERING STRAIT
"OWS VICTOR"

1964: 03-09 Dec.

8

NODC Files

31-398

Coast Guard.

31-398 - Continued

NODC Coding Forms

CASCO
"OWS BRAVO"

1965: 01-23 Jan.

5

NODC Files

310399

Coast Guard.

NODC Coding Forms

CASTLE ROCK
"OWS BRAVO"

1965: 24 Feb.-10 Mar.

11

NODC Files

310400

Naval Oceanographic Office.

NODC Coding Forms

BURTON ISLAND
BURTON ISLAND

1951: 08 Aug.- 21 Sep.
1952: 02-14 Sep.

114

NODC Files

31-401

Coast Guard.

NODC Coding Forms

COOK INLET

1965: 09-13 Apr.

7

NODC Files

310402

Naval Oceanographic Office.

310402 - Continued

Original Data Sheets & Log Sheets	
SHELDRAKE	1952: 26 Nov. to
"CRUISE 2"	
SHELDRAKE	1953: 15 Nov.
"CRUISE 3"	
"CRUISE 4"	
"CRUISE 5"	
"CRUISE 6"	
"CRUISE 7"	
31	NODC Files
310404	
Scripps Institution of Oceanography.	
Original Data Summary Sheets	
STRANGER	1959: 26 Sep.-13 Dec.
"NAGA S-2"	
STRANGER	1960: 21 Feb.-01 Dec.
"NAGA S-4"	
STRANGER	1961: 24-31 Jan.
"NAGA S-10"	
187	NODC Files
310405	
Coast Guard. "International Ice Observations and Ice Patrol Service." 1952.	
Bulletin no.37	
EVERGREEN	1951: 03 Apr.-23 Jul.
"INTERNATIONAL ICE PATROL"	
307	NODC Files
310406	
Naval Oceanographic Office.	
NODC Coding Forms	
TANNER	1963: 20 Jul.-31 Aug.
49	NODC Files
310407	
Naval Oceanographic Office.	
NODC Coding Forms	
LITTLEHALES	1965: 24 Feb.-08 Mar.
13	NODC Files
310408	
Naval Oceanographic Office.	
NODC Coding Forms	
GILLISS	1965: 29 Mar.
1	NODC Files
310409	
Naval Oceanographic Office.	
NODC Coding Forms	
STATEN ISLAND	1965: 21-25 Feb.
28	NODC Files
310410	
Woods Hole Oceanographic Institution.	

310410 - Continued

Reduced Data Cards

ATLANTIS I
"CRUISE 70"

1937: 23-31 Aug.

57

NODC Files

310411

Naval Oceanographic Office.

Tabular Data

BARTON

"OPERATION CROSSROADS"

WALKE

"OPERATION CROSSROADS"

LAFFEY

"OPERATION CROSSROADS"

O'BRIEN

"OPERATION CROSSROADS"

BOWDITCH

"OPERATION CROSSROADS"

1946: 17 Jun.-10 Jul.

1946: 18 Jun.-10 Aug.

1946: 18 Jun.-20 Jul.

1946: 17 Jun.-11 Aug.

1946: 07 May-11 Jun.

204

NODC Files

310413

Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1957.

Special Scientific Report-Fisheries no.210

T.N. GILL

"CRUISE 3-REG."

1953: 25 Jul.-12 Aug.

75

NODC Files

310414

Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States". 1957.

Special Scientific Report-Fisheries no.210

T.N. GILL

"CRUISE 3-SPEC."

1953: 17-26 Jul.

5

NODC Files

310415

Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1957.

Special Scientific Report-Fisheries no.210

T.N. GILL

"CRUISE 3-STD."

1953: 18-24 Jul.

15

NODC Files

310416

Scripps Institution of Oceanography.

Original Data Summary Sheets

BUSHNELL

1954: 18-27 Aug.

18

NODC Files

31-417

Scripps Institution of Oceanography. "Data Report." 1964.

SIO Ref. 64-2

31-417 - Continued

ALEXANDER AGASSIZ	1963: 24 Jan.-22 Feb.	310420	Coast Guard.
"CCOFI CRUISE 6301"			
"CCOFI CRUISE 6302"			
BLACK DOUGLAS	1963: 04-06 Feb.		NODC Coding Forms
"CCOFI CRUISE 6302"			
119	NODC Files		1965: 03-21 Apr.
			YAKUTAT
			"OWS BRAVO"
		12	NODC Files
310418	Scripps Institution of Oceanography.		
"Data Report." 1964.		31-425	Naval Oceanographic Office.
SIO Ref. 64-13			NODC Coding Forms
ALEXANDER AGASSIZ	1963: 11 Apr.-25 Jun.		
"CCOFI CRUISE 6304"			SANDS
"CCOFI CRUISE 6306"			
BLACK DOUGLAS	1963: 15-17 Apr.	8	NODC Files
"CCOFI CRUISE 6304"			
115	NODC Files	310426	University of Washington, Dept. of Oceanography.
			"Technical Report 22. Eastern North Pacific
			Offshore Physical and Chemical Data."
310419	Scripps Institution of Oceanography.		Tabular Data & Ref. 54-6
"Data Report." 1964.			
SIO Ref. 64-18			1952: 29 Apr.-13 Jul.
BLACK DOUGLAS	1963: 11 Jul.-07 Aug.		BROWN BEAR
"CCOFI CRUISE 6307"			"CRUISE BB-4"
HORIZON	1963: 03-19 Sep.	36	"CRUISE BB-7"
"CCOFI CRUISE 6309"			
ALEXANDER AGASSIZ	1963: 09-15 Sep.		NODC Files & DNO GC856
"CCOFI CRUISE 6309"			W2A4 no.22
84	NODC Files	310427	Naval Oceanographic Office.
			Oceanographic Log Sheets (E)

310427 - Continued

PURSUIT
"CRUISE 11"
22
NODC Files
31-428
Naval Oceanographic Office.
NODC Coding Forms
BURTON ISLAND
83
31-429
Woods Hole Oceanographic Institution.
Reduced Data Cards
CRAWFORD
"CRUISE 27"
"CRUISE 29"
"CRUISE 33"
"CRUISE 35"
CRAWFORD
"CRUISE 38"
"CRUISE 42"
"CRUISE 43"
"CRUISE 47"
"CRUISE 49"
"CRUISE 53"
CRAWFORD
"CRUISE 67"
CRAWFORD
"CRUISE 84"
"CRUISE 89"
CRAWFORD
"CRUISE 94"

1953: 01 Aug.-10 Sep.
NODC Files
1964: 14 Jul.-29 Sep.
NODC Files
1959: 19 May-20 Dec.
1960: 15 Mar.-15 Oct.
1961: 14-16 Aug.
1962: 20 Aug.-21 Nov.
1963: 26-28 Jun.

31-429 - Continued

CRAWFORD
"CRUISE 106"
"CRUISE 112"
216
NODC Files
310430
Naval Oceanographic Office.
Original Data Sheets
BURTON ISLAND
42
NODC Files
310431
Air Force Cambridge Research Center, Geophysics Research Directorate. "Oceanographic Observations. Scientific Studies at Fletcher's Island, 1-3." 1959.
Geophysical Research Papers no.63, vol. 1
ICE ISLAND T-3 1952: to
ICE ISLAND T-3 1953: to
ICE ISLAND T-3 1954: to
ICE ISLAND T-3 1955:
22
DNO QC801 U5 G3 no.63
310432
Coast and Geodetic Survey.
Original Data Sheets
PATHFINDER
"CRUISE PF-1"
1953: 08 Jun.-03 Sep.

1964: 04 Apr.-27 Jul.

310432 - Continued

4 NODC Files

31-433 Woods Hole Oceanographic Institution.
Reduced Data Sheets
ATLANTIS II
"CRUISE 14"
34 NODC Files

31-434 Woods Hole Oceanographic Institution.
Reduced Data Cards
CRAWFORD
"CRUISE 41"
"CRUISE 42"
CRAWFORD
"CRUISE 62"
65 NODC Files

31-435 Woods Hole Oceanographic Institution.
Reduced Data Cards
ATLANTIS I
"CRUISE 250"
ATLANTIS I
"CRUISE 257"
ATLANTIS I
"CRUISE 265"
ATLANTIS I
"CRUISE 289"
1959: 26 Oct.
1960: 14-25 Jul.
1961: 01-07 Jun.
1962: 02-04 Dec.

31-435 - Continued

26 NODC Files

31-436 Scripps Institution of Oceanography & Inter-American Tropical Tuna Commission.
Data Summary Sheets & Tabular Data
HORIZON
"SHELLBACK EXPEDITION"
1952: 18 May-25 Aug.
216 NODC Files

310439 University of Washington, Dept. of Oceanography.
"Eastern North Pacific Offshore Physical and Chemical Data." 1954.
Technical Report no.22
BROWN BEAR
"CRUISE BB-1"
"CRUISE BB-9"
1952: 14 Mar.-02 Sep.
37 DNO GC856 W2A4 no.22

310440 University of Washington, Dept. of Oceanography.
"Technical Report no.23. Eastern North Pacific Offshore Physical and Chemical Data." 1954.
Ref. 54-7
BROWN BEAR
"CRUISE BB-26"
"CRUISE BB-29"
1953: 30 Apr.-15 Jun.
55 DNO GC856 W2A4 no.23

310443 - Continued

310441	University of Washington, Dept. of Oceanography. "Physical and Chemical Data Puget Sound and Approaches."	1953: 13-28 Feb.
		DNO SH11 FWS no.249
	Technical Report no.28	
	ONCORHYNCHUS	
	ONCORHYNCHUS	1949: 08 Feb. to
	ONCORHYNCHUS	1950: to
	ONCORHYNCHUS	1951: to
	ONCORHYNCHUS	1952: 22 Feb.
137	DNO GC856 W2A4 no.28	
310442	University of Washington, Dept. of Oceanography. "Technical Report no.24. Physical and Chemical Data Puget Sound and Approaches." 1958.	
	Ref. 58-8	
	BROWN BEAR	
	"CRUISE 88-1"	
	"CRUISE 88-2"	1952: Mar.-Aug.
	"CRUISE 88-3"	
	"CRUISE 88-5"	
	"CRUISE 88-6"	1952: Mar.-Aug.
	ONCORHYNCHUS	DNO GC856 W2A4 no.24
137		
310443	Texas A&M University, Dept. of Oceanography and Meteorology. Physical and Chemical Data Gulf of Mexico." 1958.	
	(In) Fish and Wildlife Service, Special Scientific Report-Fisheries no.249	
	ALASKA	
	"CRUISE 8-3C"	
34		
	Naval Oceanographic Office. "Field Report-Oceanographic Observations, Arctic Waters." 1954.	
	H.O. Misc. 15047-31	
	EDISTO	1954: 07 Feb.-18 Mar.
49		NODC Files
310445	Naval Oceanographic Office. "Field Report-Oceanographic Observations, Arctic Waters." 1954.	
	H.O. Misc. 15047-31	
	ATKA	1954: 08 Jan.-04 Mar.
60		NODC Files
310446	Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1958.	
	Special Scientific Report-Fisheries no.265	
	T.N. GILL	1954: 25-28 Apr.
	"CRUISE 6-REG."	
17		NODC Files

310450 - Continued

310447	Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1958.		
	Special Scientific Report-Fisheries no.265		
T.N. GILL	1954: 17-19 Apr.	T.N. GILL	1954: 30 Jan.-23 Feb.
"CRUISE 6-STD."		"CRUISE 5-REG."	
13	NODC Files	65	NODC Files
310448	Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1957.	310451	Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1958.
	Special Scientific Report-Fisheries no.234		Special Scientific Report-Fisheries no.248
T.N. GILL	1953: 08 Oct.	T.N. GILL	1954: 21-25 Jan.
"CRUISE 4 T.O."		"CRUISE 5-SPEC."	
4	NODC Files	4	NODC Files
310449	Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1957.	310452	Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1958.
	Special Scientific Report-Fisheries no.234		Special Scientific Report-Fisheries no.248
T.N. GILL	1953: 12 Oct.-13 Nov.	T.N. GILL	1954: 23-25 Jan.
"CRUISE 4-REG."		"CRUISE 5-STD."	
72	NODC Files	14	NODC Files
310450	Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1958.	310453	Fish and Wildlife Service. "Physical Oceanographic, Biological and Chemical Data South Atlantic Coast of the United States." 1958.

310453 - Continued

Special Scientific Report-Fisheries no.265

T.M. GILL
"CRUISE 6-SPEC"

1954: 16-26 Apr.

5

NODC Files

310454

Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1958.

Special Scientific Report-Fisheries no.278

T.M. GILL
"CRUISE 7-REG."

1954: 23 Jun.-11 Jul.

79

NODC Files

310455

Texas A&M University, Dept. of Oceanography and Meteorology.

Tabular Data

ALASKA
"CRUISE 10-28"

1953: 15 Apr.-03 May

26

NODC Files

310456

Naval Oceanographic Office. "Oceanographic Survey Results, Beaufort Sea Area." 1956.

Log Sheets & HO Misc. 15791

BURTON ISLAND

1954: 04 Aug.-13 Sep.

310456 - Continued

70

NODC Files & DNO HO
Misc. 15791

310457

Naval Oceanographic Office. "Oceanographic Survey Results, Beaufort Sea Area." 1956.

Log Sheets & HO Misc. 15791

NORTHWIND

1954: 09 Aug.-16 Sep.

37

NODC Files & DNO HO
Misc.15791

310459

Scripps Institution of Oceanography & Fish and Wildlife Service. "Oceanic Observations of the Pacific 1949." Univ. California Press, 1957.

Publication

HUGH M. SMITH
"CRUISE 1"

1949: 14-21 Dec.

18

NODC Files

310460

Fish and Wildlife Service. "Mid-Pacific Oceanography Parts II and III; Transequatorial Waters." 1954.

Special Scientific Report-Fisheries no.131

HUGH M. SMITH
"CRUISE 5"

1950: 30 Jun.-06 Aug.

51

DNO SH11 FWS no.131

310464 - Continued

310461	Fish and Wildlife Service. "Mid-Pacific Oceanography Parts II and III; Transequatorial Waters." 1954.		
	Special Scientific Report-Fisheries no.132		
	HUGH M. SMITH	1951: 15 Jan.-12 Mar.	
	"CRUISE 8"		
104		DNO SH11 FWS no.131	
310462	Fish and Wildlife Service. "Mid-Pacific Oceanography Part VI; Hawaiian Offshore Waters." 1955.		
	Special Scientific Report-Fisheries no.152		
	HUGH M. SMITH	1951: 21 Jul.	
	"CRUISE 10"		
34		NODC Files	
310463	Fish and Wildlife Service. "Mid-Pacific Oceanography Parts II and III; Transequatorial Waters." 1954.		
	Special Scientific Report-Fisheries no.131		
	HUGH M. SMITH	1951: 25 Sep.-04 Oct.	
	"CRUISE 11"		
23		DNO SH11 FWS no.131	
310464	Fish and Wildlife Service. "Mid-Pacific Oceanography Part VI, Hawaiian Offshore Waters." 1955.		
	Special Scientific Report-Fisheries no.152		
	HUGH M. SMITH	1951: 24 Oct.-01 Nov.	
	"CRUISE 12"		
30		NODC Files	
310465	Fish and Wildlife Service. "Mid-Pacific Oceanography Part IV; Transequatorial Waters." 1954.		
	Special Scientific Report-Fisheries no.135		
	HUGH M. SMITH	1952: 27 Jan.-07 Mar.	
	"CRUISE 14"		
47		NODC Files	
310466	Fish and Wildlife Service. "Mid-Pacific Oceanography Part V; Transequatorial Waters." 1952.		
	Special Scientific Report-Fisheries no.136		
	HUGH M. SMITH	1952: 28 May-20 Jun.	
	"CRUISE 15"		
60		DNO SH11 FWS no.136	
310467	Fish and Wildlife Service. "Mid-Pacific Oceanography Part V; Transequatorial Waters." 1952.		
	Special Scientific Report-Fisheries no.136		
	HUGH M. SMITH	1952: 27 Jul.-04 Aug.	
	"CRUISE 16"		

310467 - Continued

30 DNO SH11 FWS no.136

310468 Fish and Wildlife Service. "Mid Pacific Oceanography Part VII; Hawaiian Offshore Waters." 1955. Special Scientific Report-Fisheries no.164

HUGH M. SMITH
"CRUISE 17" 1952: 05-17 Sep.

31 NODC Files

310469 Fish and Wildlife Service. "Mid-Pacific Oceanography Part VII; Hawaiian Offshore Waters." 1955. Special Scientific Report-Fisheries no.164

HUGH M. SMITH
"CRUISE 20" 1953: 09 Mar.-03 Apr.

69 NODC Files

310470 Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959. Special Scientific Report-Fisheries no.303

T.N. GILL
"CRUISE 8-REG." 1954: 11-30 Sep.

76 NODC Files

310471 Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959. Special Scientific Report-Fisheries no.303

310471 - Continued

graphical, Biological, and Chemical Data South Atlantic Coast of the United States." 1959. Special Scientific Report-Fisheries no.303

T.N. GILL
"CRUISE 8-SPEC." 1954: 12 Sep.

1 NODC Files

310472 Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959. Special Scientific Report-Fisheries no.278

T.N. GILL
"CRUISE 7-SPEC." 1954: 11-24 Jun.

5 NODC Files

310473 Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959. Special Scientific Report-Fisheries no.278

T.N. GILL
"CRUISE 7-STD." 1954: 12-14 Jun.

15 NODC Files

310474 Navy Underwater Sound Laboratory, New London, Conn.

310474 - Continued

Log Sheets

PCE (R) 852
"CRUISE 1"
"CRUISE 2"
"CRUISE 3"
"CRUISE 4"

1954: 20 Apr.-11 May

14

NODC Files

310475

Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959.

Special Scientific Report-Fisheries no.313

T.N. GILL
"CRUISE 9-SPEC."

1954: 04-17 Nov.

5

NODC Files

310476

Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 15 9.

Special Scientific Report-Fisheries no.313

T.N. GILL
"CRUISE 9-STD."

1954: 06-08 Nov.

15

NODC Files

310477

Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959.

310477 - Continued

Atlantic Coast of the United States." 1959.

Special Scientific Report-Fisheries no.313

T.N. GILL
"CRUISE 9 T.O."

1954: 11 Nov.

1

NODC Files

310478

Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959.

Special Scientific Report-Fisheries no.313

T.N. GILL
"CRUISE 9-REG."

1954: 16 Nov.-08 Dec.

67

NODC Files

31-479

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-299"
"CRUISE BB-304"
"CRUISE BB-308"
"CRUISE BB-309"
"CRUISE BB-310"
"CRUISE BB-311"
"CRUISE BB-312"

1962: 23 Jan.-17 Oct.

558

NODC Files.

31-485 - Continued

Punched Cards

CHAIN
"CRUISE 47"

25

1965: 20 Apr.-11 May

NODC Files

31-486

Naval Oceanographic Office.

NODC Coding Forms

GILLISS

1965: 20 Jan.-02 Mar.

49

NODC Files

31-487

Naval Oceanographic Office.

NODC Coding Forms

OMEGA

1964: 07-09 Dec.

11

NODC Files

31-488

Coast Guard.

NODC Coding Forms

BARATARIA

1965: 14-16 Jun.

7

NODC Files

31-489

Naval Oceanographic Office.

NODC Coding Forms

31-489 - Continued

CHARLES H. DAVIS

1965: 06-21 Apr.

60

NODC Files

31-490

Naval Oceanographic Office.

NODC Coding Forms

CHARLES H. DAVIS

1965: 03 Mar.-01 Apr.

23

NODC Files

31-491

University of Hawaii.

NODC Coding Forms

TERITU

"CRUISE UH-1"

"CRUISE UH-2"

1965: 19 Mar.-24 May

75

NODC Files

31-492

Naval Oceanographic Office.

NODC Coding Forms

LITTLEHALES

"PROJECT AUTEC"

1965: 26-29 Nov.

26

NODC Files

310493

University of Washington, Dept. of Oceanography.
"Technical Report no.49, Eastern North Pacific
and Gulf of Alaska Offshore Physical and Chemical

310493 - Continued

Data." 1956.

Ref. 56-10

BROWN BEAR
"CRUISE BB-64"

100

DNO GC856 W2A4 no.49

310494

Fish and Wildlife Service. "Physical Oceanographic, Biological, and Chemical Data South Atlantic Coast of the United States." 1959.

Special Scientific Report-Fisheries no.278

T.N. GILL
"CRUISE 7"

1954: 18 Jun.

1

NODC Files

310496

Naval Oceanographic Office.

Log Sheets

ALLEGHENY
"CRUISE A"

1951: 24-25 Nov.

ALLEGHENY
"CRUISE B"
"CRUISE C"

1952: 20 Feb.-10 Apr.

51

NODC Files

310497

Naval Oceanographic Office.

Log Sheets

310497 - Continued

BLISH

1949: 23-24 Feb.

17

NODC Files

31-498

Naval Oceanographic Office.

NODC Coding Forms

GILLISS
"MILOC-65"

1965: 02-28 Jul.

77

NODC Files

310499

Coast and Geodetic Survey.

Log Sheets

PATHFINDER

1955: 07-13 Aug.,
09 Sep.

4

NODC Files

310500

Naval Oceanographic Office.

Manuscript Data

REHOBOTH
"PROJECT MEDEA"

1955: 06 Jul.-18 Aug.

27

310501

Naval Oceanographic Office. "Oceanographic Survey Results, Berring Sea area, Winter & Spring, 1955." 1958.

310501 - Continued

Technical Report TR-46			
NORTHWIND	1955: 06 Mar.-18 Apr.	Naval Oceanographic Office. "Oceanographic Survey Results, Task Force Five."	310509
51	DNO H.O. TR-46	H.O. Misc. 15047-36	
310504		STATEN ISLAND	1955: 29 Aug.-20 Sep.
Naval Oceanographic Office. "Field Report: Oceanographic Observations, U.S. Navy Antarctic Expedition." 1956.		12	NODC Files
Technical Report TR-48		310510	
ATKA	1955: 15 Jan.-19 Feb.	Naval Oceanographic Office. "Oceanographic Survey Results, Task Force Six." 1956.	
"CRUISE 504"		HO Misc. 15047-35	
13	NODC Files	ATKA	1955: 27 Aug.-02 Oct.
310505		34	NODC Files
Naval Oceanographic Office. "Oceanographic Survey Results, Berring Sea area, Winter and Spring, 1955." 1958.		310511	
Technical Report TR-46		University of Miami, Institute of Marine Science, Marine Laboratory. "Some Results of the Florida Current Study." 1956.	
BURTON ISLAND	1955: 21 Apr.-27 May	Tabular Data & Ref. 56-15	
28	DNO H.O. TR-46	GERDA	1955: 25-30 Aug.
310506		"CRUISE Ge-5506"	
Naval Oceanographic Office.		26	NODC Files & DNO GC396 F6M6 no.56-15
Manuscript Data			
EDISTO	1955: 03-28 Mar.	31-512	
49		Posner, Gerald S. "Peru Current."	
		Dissertation-Phd., Yale University, 1955	

31-512 - Continued

MAISE
156
1953: 10 Mar.-21 May
DNO Microfilm,
Roll 252, no.8

310514
Naval Oceanographic Office.
"Deep Freeze I." 1956.
Technical Report TR-33

EDISTO
"DEEP FREEZE I"
21
1956: 28 Jan.-31 Mar.
NODC Files

310515
Coast and Geodetic Survey.
NODC Coding Forms
PEIRCE
"OPR-459"
"CRUISE 3"
11
1965: 01-02 Sep.
NODC Files

310516
Coast and Geodetic Survey.
Log Sheets
HYDROGRAPHER
25
1957: 05 May-06 Oct.
NODC Files

310517
Fish and Wildlife Service.
"Mid-Pacific

310517 - Continued

Oceanography Part IX." & "Oceanographic
Observations in the Central North Pacific."
1956 & 1958.
Special Scientific Report-Fisheries
no.168 & 252
HUGH M. SMITH
"NORPAC"
"CRUISE 30"
1955: 15 Jul.-28 Aug.
85
NODC Files

31-518
Naval Oceanographic Office.
Original Data Sheets
NORTHWIND
1955: 13 Jul.-04 Sep.
31
NODC Files

310520
Coast and Geodetic Survey.
Original Data Sheets
BOWIE
1959: 19 May-27 Aug.
25
NODC Files

31-521
Coast Guard.
NODC Coding Forms
CASCO
"OWS BRAVO"
1964: 05-25 Jan.

31-521 - Continued

NODC Files

Special Scientific Report-Fisheries no.164

19

31-522
Coast Guard.

HUGH M. SMITH
"CRUISE 26"
1954: 29 May-18 Jun.

NODC Coding Forms

21
DNO SH11 FWS no.164

YAKUTAT
"OWS BRAVO"

1964: 22 Feb.-07 Mar.

310526
Fish and Wildlife Service. "Oceanographic
Observations in the Central North Pacific."
1958.

NODC Files

11

31-523
Coast Guard.

Special Scientific Report-Fisheries no.252

NODC Coding Forms

HUGH M. SMITH
"CRUISE 27"
1955: 06 Jan.-21 Feb.

CATTLE ROCK
"OWS BRAVO"

1964: 30 Mar.-18 Apr.

NODC Files

49

16

NODC Files

310527
Fish and Wildlife Service. "Mid-Pacific
Oceanography Part VII; Hawaiian Offshore
Waters." 1955.

310524
Fish and Wildlife Service. "Oceanographic
Observations in the Central North Pacific."
1958.

Special Scientific Report-Fisheries no.164

Special Scientific Report-Fisheries no.252

1953: 05-26 Aug.

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"CRUISE 17"

1954: 19 Sep.-01 Nov.

DNO SH11 FWS no.164

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DNO SH11 FWS no.252

310528
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310525

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Oceanography Part VII; Hawaiian Offshore
Waters." 1955.

NODC Coding Forms

1961: 28 Nov.-24 Dec.

SAN PABLO

310528 - Continued

49

NODC Files

310529

Coast Guard.

NODC Coding Forms

MCCULLOCH

1965: 23-26 Oct.

10

NODC Files

310530

University of Miami, Institute of Marine Sciences
Marine Laboratory.

Manuscript Data

NOT GIVEN
NOT GIVEN

1952: 23 Dec. to
1953: 24 Nov.

29

310531

University of Miami, Institute of Marine Sciences
Marine Laboratory. "Some Results of the Florida
Current Study." 1955.

Ref. 55-1

PHYSALIA

1954: 01-13 Apr.

23

DWO GC296 F6 M6
no.55-1

310532

University of Miami, Institute of Marine Sciences
Marine Laboratory.

310532 - Continued

Manuscript data

PHYSALIA

1955: 06-18 Apr.

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310533

Naval Oceanographic Office.
Deep Freeze I." 1956.

"Report on Operation

Technical Report TR-33

GLACIER
"DEEP FREEZE I"

1956: 02 Jan.-26 Mar.

11

NODC Files

310536

Coast and Geodetic Survey.

Original Data Sheets

EXPLORER (U.S.)
EXPLORER (U.S.)
EXPLORER (U.S.)
EXPLORER (U.S.)

1955: 19 May-10 Sep.
1956: 26 Jul.
1959: 26 May-18 Jun.
1961: 7-23 Apr.

13

NODC Files

310537

Naval Oceanographic Office.

NODC Coding Forms

SANDS

1965: 17-30 Jun.

60

NODC Files

310541 - Continued	
EASTWIND "CRUISE 541"	1956: 01-07 Oct.
NODC Files	
Coast and Geodetic Survey.	
Originator's Coding Forms	
HYDROGRAPHER	1958: 22 Apr.-08 Oct.
37	NODC Files
Naval Oceanographic Office.	
NODC Coding Forms	
PREVAIL	1961: 24 Jun.-08 Jul.
15	NODC Files
Naval Oceanographic Office.	
NODC Coding Forms	
SERRANG "INTERNATIONAL INDIAN: OCEAN EXPEDITION"	1961: 07 Nov.-23 Dec.
79	NODC Files
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310546 - Continued

Technical Report TR-58

ELDORADO
"CRUISE 546"

1

NODC Files

1956: 23 Aug.

310547

Naval Oceanographic Office. "Oceanographic
Observations, Arctic Waters, Task Force Five
and Six." 1960.

Technical Report TR-58

ATKA
"CRUISE 547"

11

NODC Files

1956: 10 Aug.-01 Sep.

310548

Naval Oceanographic Office. "Oceanographic
Observations, Arctic Waters, Task Force Five
and Six." 1960.

Technical Report TR-58

REQUISITE
"CRUISE 548"

29

NODC Files

1956: 19 Jul.-31 Aug.

310549

Coast Guard.

NODC Coding Forms

EVERGREEN
"LABRADOR CURRENT"

1965: 25 Jul.-11 Aug.

310549 - Continued

EXPEDITION"

100

NODC Files

310550

Naval Oceanographic Office.

Manuscript Data

HANNIBAL

1934: 12-14 Jan.

3

310554

Scripps Institution of Oceanography. "Hydro-
graphic and Biological Observations Gulf of
Panama."

Original Data Sheets

NOT GIVEN
NOT GIVEN
NOT GIVEN
NOT GIVEN

1954: 29 Nov.-24 Dec.
1955: 11 Jan.-26 Dec.
1956: 09 Jan.-19 Dec.
1957: 02 Jan.-15 Jul.

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NODC Files

310557

Yale University, Bingham Oceanographic Collec-
tion. "Report on Hydrographic Observations
in the Gulf of Mexico and Adjacent Straits."
1935.

Bulletin vol. 5, no.1

MABEL TAYLOR

1932: 24 Jan.-27 Apr.

75

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310561 - Continued

310558	University of Washington, Dept. of Oceanography. "Special Report no.30 for the IGY of 1957-1958." 1958.		
	Ref. 58-32		
	BROWN BEAR	1958: 02 Jul.-20 Aug.	
	"CRUISE B-199"		
	"IGY 1958"		
41		NODC Files	
310559	Naval Oceanographic Office.		
	Log Sheets		
	ATKA	1950: 24-31 Aug.	
9		NODC Files	
310560	Naval Oceanographic Office. "Operation Deep Freeze II, 1956-1957, Oceanographic Survey Results." 1957.		
	Technical Report TR-29		
	ATKA	1957: 03 Jan.-10 Feb.	
2	"DEEP FREEZE II"		
		NODC File	
310561	Naval Oceanographic Office. "Operation Deep Freeze II, 1956-1957, Oceanographic Survey Results." 1957.		
	Technical Report TR-29		
	GLACIER	1956: 04 Nov. to	
	"DEEP FREEZE II"	1957: 14 Feb.	
	GLACIER		
	"DEEP FREEZE II"		
11		NODC Files	
310564	Coast Guard.		
	STATEN ISLAND	1956: 28 Dec. to	
	"DEEP FREEZE II"	1957: 16 Mar.	
	STATEN ISLAND		
	"DEEP FREEZE II"		
31		NODC Files	
310562	Naval Oceanographic Office. "Operation Deep Freeze II, 1956-1957, Oceanographic Survey Results." 1957.		
	Technical Report TR-29		
	NORTHWIND	1957: 20 Feb.-15 Mar.	
	"DEEP FREEZE II"		
6		NODC Files	
310563	Naval Oceanographic Office. "Operation Deep Freeze II, 1956-1957 Oceanographic Survey Results." 1957.		
	Technical Report TR-29		
	GLACIER	1956: 04 Nov. to	
	"DEEP FREEZE II"	1957: 14 Feb.	
	GLACIER		
	"DEEP FREEZE II"		
11		NODC Files	
310564	Coast Guard.		

310564 - Continued

NODC Coding Forms

COOK INLET
"OWS BRAVO"

12

NODC Files

1965: 27 Jun.-14 Jul.

310565

Coast Guard. "International Ice Observation
and Ice Patrol Service." 1955.

Bulletin no.40

EVERGREEN

"INTERNATIONAL ICE
PATROL"

1954: 01 Apr.-04 Sep.

440

NODC Files

310566

Woods Hole Oceanographic Institution.

Reduced Data Sheets

ATLANTIS I

"CRUISE 208"

"CRUISE 212"

ATLANTIS I

"CRUISE 215"

CARYN

CARYN

1954: 18 Sep.-13 Dec.

1955: 09 Jun.-04 Jul.

1954: 03-23 Jun.

1956: 05-26 May

221

NODC Files

310567

Naval Oceanographic Office.

NODC Coding Forms

310567 - Continued

LITTLEHALES
"AUTECH"

1965: 14 May-01 Jun.

44

NODC Files

310568

Naval Oceanographic Office. "Oceanographic
Observations, Arctic Waters, Task Force Five
and Six." 1959.

Technical Report TR-59

EASTWIND

1957: 09-13 Oct.

13

NODC Files

310569

Naval Oceanographic Office. "Oceanographic
Observations, Arctic Waters, Task Force Five
and Six." 1959.

Technical Report TR-59

WESTWIND

1957: 09-13 Oct.

10

NODC Files

310570

Naval Oceanographic Office. "Oceanographic
Observations, Arctic Waters, Task Force Five
and Six." 1959.

Technical Report TR-59

SPAR

1957: 17 Jul.-10 Sep.

24

NODC Files

310571	Naval Oceanographic Office. "Oceanographic Observations, Arctic Waters, Task Force Five and Six." 1959.		
	Technical Report TR-59		
	ATKA	1957: 01-29 Aug.	
	40	NODC Files	
310572	Naval Oceanographic Office. "Oceanographic Observations, Arctic Waters, Task Force Five and Six." 1959.		
	Technical Report TR-59		
	ELDORADO	1957: 03-24 Aug.	
	46	NODC Files	
310573	Coast Guard.		
	NODC Coding Forms		
	ESCANABA "OWS BRAVO"	1965: 07-23 Aug.	
	9	NODC Files	
310574	Naval Oceanographic Office.		
	Manuscript Data		
	BURTON ISLAND	1958: 01-13 Sep.	
310574 - Continued			
37			
310575	Naval Oceanographic Office.		
	Log Sheets		
	BURTON ISLAND	1958: 14-25 Aug.	
	10	NODC Files	
310576	University of Washington, Dept. of Oceanography. "Special Report no.29 for the IGY of 1957-1958." 1958.		
	Ref 58-22		
	BROWN BEAR	1957: 25 Jul.-18 Sep.	
	"CRUISE BB-176"		
	"IGY 1957"		
	64	NODC Files	
310577	Woods Hole Oceanographic Institution. "U.S. Program in Biology, International Indian Ocean Expedition." 1964-65.		
	Final Cruise Reports (2 v.)		
	ANTON BRUUN	1964: 27 Jan.-16 Jul.	
	"CRUISE 5"		
	"CRUISE 6"		
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"		
	74	NODC Files	

310581 - Continued

310578	Duke University, Marine Laboratory, Beau- fort, N.C.	Ref. 57-9	1955: 22 Nov. to 1956: 08 May
	Oceanographic Log Sheets	GERDA GERDA	
	EASTWARD "E 35-65"	39	DNO GC296 F6M6 no. 57-9
15			
310579	Duke University, Marine Laboratory, Beau- fort, N.C.	310582 Duke University, Marine Laboratory, Beau- fort, N.C.	
	Oceanographic Log Sheets	Oceanographic Log Sheets	1965: 06-07 Aug.
	EASTWARD "E 37-65"	EASTWARD "E 40-65"	
6		12	NODC Files
310580	Coast Guard. "International Ice Observations and Ice Patrol Service." 1953.	310583 Woods Hole Oceanographic Institution. "Oceanographic Data obtained for the IGY 1957-1958." 1957.	
	Bulletin no. 38	WHOI Ref. 57-54	1957: 05 Feb.-27 May
	EVERGREEN "INTERNATIONAL ICE PATROL"	CRAWFORD "CRUISE 10" "IGY 1957/1958"	
		113	NODC Files
381			
310581	University of Miami, Marine Laboratory. "Some Results of the Florida Current Study." 1957.	310584 University of Washington, Dept. of Oceano- graphy. "Technical Report no. 56, Physical and Chemical Data for a Portion of the North- east Pacific Ocean." 1960.	

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Ref. 60-18

BROWN BEAR
 "CRUISE BB-139"
 "CRUISE BB-151"
 BROWN BEAR
 "CRUISE BB-158"
 "CRUISE BB-168"
 "CRUISE BB-175"
 "CRUISE BB-179"
 BROWN BEAR
 "CRUISE BB-188"
 "CRUISE BB-193"

163

NODC Files

310585

Coast Guard. "International Ice Observations and Ice Patrol Service." 1955.

Bulletin no.39

EVERGREEN
 "INTERNATIONAL ICE PATROL"

1953: 03 Apr.-20 Jul.

306

NODC Files

310586

Scripps Institution of Oceanography. "Oceanic Observations of the Pacific Pre-1949." Univ. California Press, 1961.

Original Tabular Data & Publication

SPENCER F. BAIRD
 SPENCER F. BAIRD
 SPENCER F. BAIRD

1947: 07 Oct.-10 Dec.
 1948: 23 Feb.-15 Sep.
 1949: 13 Jan.-24 Nov.

310586 - Continued

523

NODC Files

31-587
 Coast Guard.

1956: 06 Apr.-09 Dec.

NODC Coding Forms

1957: 04 Feb.-11 Nov.

OWASCO

1965: 28-31 Aug.

8

NODC Files

31-589

Naval Oceanographic Office.

1958: 19 Feb.-17 Apr.

NODC Coding Forms

NODC Files

CHARLES H. DAVIS

1965: 23 Feb.-02 Aug.

12

NODC Files

310590

Naval Oceanographic Office.

Manuscript Data

ATKA
 "DEEP FREEZE III"
 ATKA
 "DEEP FREEZE III"

1957: 3 Dec. to

1958: 8 Feb.

34

WDC-A Files 139.3 B-3

310591

Naval Oceanographic Office.

Manuscript Data

GLACIER

1957: 15 Oct. to

"DEEP FREEZE III"
GLACIER
"DEEP FREEZE III"

310592
Naval Oceanographic Office.

BURTON ISLAND
"DEEP FREEZE III"
BURTON ISLAND
"DEEP FREEZE III"

310593 Naval Oceanographic Office.

WESTWIND
"DEEP FREEZE III"

31-594 Naval Oceanographic Office.

SS1713

1958: 13 Feb.

WDC-A Files 139.3 B-3

310592
Naval Oceanographic Office.

1957: 9 Dec. to
1958: 15 Mar.

WDC-A Files 139.3 B-3

310593 Naval Oceanographic Office.

1958: 4 Jan.-12 Feb.

WDC-A 139.3 B-3

31-594 Naval Oceanographic Office.

1965: 21 Sep.-03 Oct.

NODC Files

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31-596 Coast and Geodetic Survey.

NODC Coding Forms

**EXPLORER (U.S.)
"OPR 425"**

NODC Files

31-597
Naval Oceanographic Office.

NODC Coding Forms

1965: 18-19 Jul.

NODC Files

310598
Naval Oceanographic Office.

NODC Coding Forms

**MCMURDO SOUND
(FIXED STATION)**

NODC Files

310599
Naval Oceanographic Office.

NOJC Coding Forms

EASTWIND
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
1961: 31 Mar.-25 Apr.

310599 - Continued

30 NODC Files

310602 Naval Oceanographic Office.
Manuscript Data from Task Force 6

ATKA 1958: 16-26 Sep.

18

310603 Woods Hole Oceanographic Institution. "Studies of Waters on the Continental Shelf, Cape Cod to Chesapeake Bay." 1933.

WHOI Contribution no.70. (In) Papers in Physical Oceanography and Meteorology, WHOI and MIT.

vol. 4, no.1

CHANCE 1927: 21-28 Jul.
ISELIN 1928: 26-29 Jun.

47 DNO QC851 P15 v.4 no.1

310604 Coast and Geodetic Survey.
Oceanographic Log Sheets

MACKINAC 1959: 28 Aug.-29 Sep.

93 NODC Files

310605 Coast and Geodetic Survey.

310605 - Continued

Oceanographic Log Sheets

PATHFINDER 1960: 09 May-09 Sep.

25 NODC Files

31-606 Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1955." Univ. California Press, 1962.

BLACK DOUGLAS 1955: 06-15 Dec.
"CCOFI CRUISE 5512 (MLR-79)"

STRANGER 1955: 30 Nov.-14 Dec.
"CCOFI CRUISE 5512 (MLR-79)"

105 NODC Files

310607 Naval Oceanographic Office.
Oceanographic Data Sheets

NORTHWIND 1961: 12-21 Aug.

40 NODC Files

310608 Scripps Institution of Oceanography. "Data Report." 1960.

SIO Ref. 60-51

SPENCER F. BAIRD 1959: 13 Apr.-29 May
"VERMILION SEA EXPEDITION"

310608 - Continued

47

NODC Files

31-609

Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1955." Univ. California Press, 1962.

BLACK DOUGLAS

"CCOFI CRUISE 5511

(MLR-78)"

POALINA-T

"CCOFI CRUISE 5511

(MLR-78)"

1955: 11-12 Nov.

1955: 09-20 Nov.

25

NODC Files

310610

Naval Oceanographic Office.

Oceanographic Log Sheets

GLACIER

"DEEP FREEZE IV"

GLACIER

"DEEP FREEZE IV"

1958: 15 Nov. to

1959: 17 Feb.

29

NODC Files

310611

Naval Oceanographic Office.

Oceanographic Log Sheets

NORTHWIND

"DEEP FREEZE IV"

NORTHWIND

"DEEP FREEZE IV"

1958: 29 Dec. to

1959: 20 Mar.

310611 - Continued

11

NODC Files

310612

Naval Oceanographic Office.

Oceanographic Log Sheets

EDISTO

"DEEP FREEZE IV"

EDISTO

"DEEP FREEZE IV"

1958: 27 Dec. to

1959: 15 Apr.

50

NODC Files

310613

Naval Oceanographic Office.

Oceanographic Log Sheets

STATEN ISLAND

"DEEP FREEZE IV"

STATEN ISLAND

"DEEP FREEZE IV"

1958: 10 Nov. to

1959: 25 Mar.

21

NODC Files

31-614

Naval Oceanographic Office.

NODC Coding Forms

LYNCH

1965: 11-14 Nov.

3

NODC Files

310615

Naval Oceanographic Office. "Oceanographic Data Report NRL Acoustic Survey." 1958.

310615 - Continued

HO Misc. 16794

ROCKVILLE

3

1958: 04-11 Nov.

DWO HO Misc. 16794

310616

Naval Oceanographic Office.

Manuscript Data

WESTWIND

1958: 13 Sep.-03 Oct.

30

310618

Naval Oceanographic Office.

Oceanographic Log Sheets

PURSUIT

1959: 23 Mar.-02 Apr.

36

NODC Files

31-621

Duke University, Marine Laboratory, Beaufort,
N.C.

NODC Coding Forms

EASTWARD

"CRUISE 45-65"

"CRUISE 58-65"

1965: 06 Sep.-08 Nov.

15

NODC Files

31-622

Naval Oceanographic Office.

31-622 - Continued

NODC Coding Forms

GILLISS

1965: 27-31 Oct.

5

NODC Files

310623

Woods Hole Oceanographic Institution. "Oceanographic Data for IGY 1957-1958." 1958.

WHOI Ref. 58-31

CRAWFORD

"CRUISE 16"

"IGY 1957/1958"

1957: 29 Oct.-29 Dec.

94

NODC Files

31-624

Coast Guard.

NODC Coding Forms

BAPATARIA

"OWS BRAVO"

1965: 11 Oct.-01 Nov.

10

NODC Files

31-626

Scripps Institution of Oceanography. "Data Report." 1965.

SIO Ref. 65-14

HORIZON

"ZIGPAC II"

"CCOFI 6106"

STRANGER

1961: 11-14 Jun.

1961: 30 Jul.-05 Sep.

31-626 - Continued

"LEAPF-06"
"CCOFI 6106"
ORCA
"BAJA BANK"
"CCOFI 6106"

28

NODC Files

1961: 11-22 Aug.

NODC Files

31-633

Scripps Institution of Oceanography. "Data Report." 1965.

STATEN ISLAND

1959: 31 Jul.-11 Sep.

SIO Ref. 65-1

BLACK DOUGLAS
"CCOFI CRUISE 6310"
ALEXANDER AGASSIZ
"CCOFI CRUISE 6310"
"CCOFI CRUISE 6311"
(EL GOLFO)
HORIZON
"CCOFI CRUISE 6310"
"CCOFI CRUISE 6311"
(EL GOLFO)

1963: 02-23 Oct.

310637 Naval Oceanographic Office.

1963: 06 Oct.-27 Nov.

Manuscript Data

"CCOFI CRUISE 6310"
"CCOFI CRUISE 6311"
(EL GOLFO)

ATKA

1959: 02 Aug.-16 Sep.

HORIZON

1963: 28 Oct.-29 Nov.

34

"CCOFI CRUISE 6310"
"CCOFI CRUISE 6311"
(EL GOLFO)

310638

Naval Oceanographic Office.

74

NODC Files

Manuscript Data

310634

Scripps Institution of Oceanography. "Data Report." 1963.

WESTWIND

1959: 05 Sep.-23 Oct.

SIO Ref. 63-9

HORIZON
"CCOFI CRUISE 6203"
"CCOFI CRUISE 6204"
"CCOFI CRUISE 6205"
BLACK DOUGLAS

1962: 16 Mar.-01 May

310639 Naval Oceanographic Office.

NODC Coding Forms

"CCOFI CRUISE 6203"
"CCOFI CRUISE 6204"
"CCOFI CRUISE 6205"

SERRANO

1961: 13 Mar.-11 Apr.

"INTERNATIONAL INDIAN

310639 - Continued

OCEAN EXPEDITION"

101

NODC Files

310640

Naval Oceanographic Office. "Oceanographic Data Report NRL Acoustic Survey." 1959.

HO Misc. 16864

ROCKVILLE

1959: 04-13 Aug.

6

DNO HO Misc. 16864

310643

Coast Guard. "International Ice Observation and Ice Patrol Service." 1958.

Bulletin no.43

ACUSHNET

1957: 01 May-29 Jul.

"INTERNATIONAL ICE PATROL"

EVERGREEN

1957: 04-18 Apr.

"INTERNATIONAL ICE PATROL"

237

NODC Files

310644

Coast Guard. "International Ice Observations and Ice Patrol Service." 1957.

Bulletin no.42

EVERGREEN

1956: 01 Apr.-02 Jul.

"INTERNATIONAL ICE PATROL"

310644 - Continued

299

NODC Files

31-645

Woods Hole Oceanographic Institution.

Reduced Data Cards

PANULIRUS

1954: 06 Jun. to

PANULIRUS

1955: to

PANULIRUS

1956: to

PANULIRUS

1957: to

PANULIRUS

1958: to

PANULIRUS

1959: to

PANULIRUS

1960: to

PANULIRUS

1961: to

PANULIRUS

1962: to

PANULIRUS

1963: 22 Aug.

196

NODC Files

310646

Texas A&M University. "Data Report for Two IGY Cruises." 1959.

Ref. 59-15D

HIDALGO

"CRUISE 58-HI"

"CRUISE 58-H4"

"IGY 1959"

1958: 23 Mar.-29 Jun.

103

NODC Files

310649

Naval Oceanographic Office. "Operation Deep Freeze 1959-1960. Oceanographic Survey Results." 1961.

Technical Report TR-82

ATKA	1960: 03-06 Jan.	310654	Naval Oceanographic Office. "Oceanographic Data Report-Torogue of the Ocean (ASWEPs) Survey." 1960.	
18	NODC Files			
310650	Naval Oceanographic Office.			
Manuscript Data				
BURTON ISLAND	1960: 08 Feb.-05 Mar.	12	HO Misc. 16782-11	
"DEEP FREEZE 1960"			J.W. GIBBS "TOTO"	1959: 13-17 Dec.
55				DNO HO Misc. 16782 11
310651	Naval Oceanographic Office. "Operation Deep Freeze 1959-1960. Oceanographic Survey Results." 1961.	310655	Naval Oceanographic Office.	
Technical Report TR-82		21	Oceanographic Log Sheets	
EASTWIND	1960: 13 Jan.-13 Feb.	310658	STATEN ISLAND	1960: 25 Jan.-22 Feb.
"DEEP FREEZE 1959-1960"				NODC Files
20	NODC Files			
310652	Naval Oceanographic Office. "Operation Deep Freeze 1959-1960. Oceanographic Survey Results." 1961.			1960: 16 Feb.-05 Mar.
Technical Report TR-82		55	REQUISITE "INTERNATIONAL INDIAN OCEAN EXPEDITION"	NODC Files
GLACIER	1959: 09 Dec. to	310659		
"DEEP FREEZE 1959-1960"			Naval Oceanographic Office.	
GLACIER	1960: 13 Mar.		Manuscript Data	
"DEEP FREEZE 1959-1960"				
30	NODC Files		SAN PABLO	1960: 06 Mar.-24 Apr.

310659 - Continued

156

310660 Naval Oceanographic Office.

Manuscript Data

BURTON ISLAND

1960: 15 Mar.-15 Apr.

69

310664 Naval Oceanographic Office.

NODC Coding Forms

SHELDRAKE

1960: 24 Jun.-03 Jul.

17

NODC Files

31-666 Naval Oceanographic Office.

NODC Coding Forms

SAN PABLO
"MEDEA"

1960: 20 Jul.-21 Aug.

70

NODC Files

310667 Naval Oceanographic Office.

Manuscript Data

BURTON ISLAND

1960: 06 Aug.-06 Oct.

68

310669 Naval Oceanographic Office.

Oceanographic Log Sheets

EDISIO

1960: 13-15 Aug.

7

NODC Files

310670 Naval Oceanographic Office.

Oceanographic Log Sheets

WESTWIND

1960: 28 Aug.-09 Sep.

21

NODC Files

310671 Coast Guard.

Oceanographic Log Sheets

CHINCOTEAGUE
"STATION C"

1960: 26 Aug.-30 Sep.

27

NODC Files

310672 Naval Oceanographic Office.

Oceanographic Log Sheets

STATEN ISLAND
"DEEP FREEZE 1961"

1961: 21 Dec.-10 Mar.

78

NODC Files

310675	Naval Oceanographic Office. Manuscript Data		31-679	Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1955." Univ. Cali- fornia Press, 1962.
REHOBOTH		1960: 08 Nov.-01 Dec.	CREST	1955: 11-19 Feb.
47			"CCOFI CRUISE 5502 (MLR-69)"	
310676	Naval Oceanographic Office. Oceanographic Log Sheets		PAOLINA-T	1955: 12-18 Feb.
			"CCOFI CRUISE 5502 (MLR-69)"	
SHELDRAKE		1960: 21 Nov.-09 Dec.	SPENCER F. BAIRD	1955: 13-23 Feb.
31			"CCOFI CRUISE 5502 (MLR-69)"	
			123	NODC Files
31-677	Naval Oceanographic Office. Oceanographic Log Sheets		31-680	Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1955." Univ. Cali- fornia Press, 1962.
CANISTEO		1947: 13 Feb.-15 Mar.	CREST	1955: 07-22 Apr.
"HI-JUMP, ANTARCTIC"			"CCOFI CRUISE 5504 (MLR-71)"	
15			HORIZON	1955: 07-19 Apr.
			"CCOFI CRUISE 5504 (MLR-71)"	
310678	Naval Oceanographic Office. Oceanographic Log Sheets		SPENCER F. BAIRD	1955: 17-22 Apr.
			"CCOFI CRUISE 5504 (MLR-71)"	
BROWNSON		1946: 12 Dec. to	128	NODC Files
BROWNSON		1947: 06 Feb.		
27			31-681	Scripps Institution of Oceanography. "Oceanic Observations of the Pacific 1955." Univ. Cali- fornia Press, 1962.

31-681 - Continued

SPENCER F. BAIRD
"CCOFI CRUISE 5505
(MLR-72)"
CREST
"CCOFI CRUISE 5506
(MLR-73)"
HORIZON
"CCOFI CRUISE 5506
(MLR-73)"
PAOLINA-T
"CCOFI CRUISE 5506
(MLR-73)"

1955: 12-18 May

1955: 11-26 Jun.

1955: 12-28 Jun.

1955: 17-23 Jun.

126

NODC Files

31-682

Scripps Institution of Oceanography. "Oceanic
Observations of the Pacific 1955." Univ. Calif-
ornia Press, 1962.

BLACK DOUGLAS

"CCOFI CRUISE 5509
(MLR-76)"

1955: 15-25 Sep.

PAOLINA-T

"CCOFI CRUISE 5509
(MLR-76)"

1955: 12-18 Sep.

43

NODC Files

31-683

Scripps Institution of Oceanography. "Data
Report." 1960.

SIO Ref. 60-36

ORCA

"CCOFI CRUISE 5903
(MLR-118)"

1959: 13-23 Mar.

31-683 - Continued

PAOLINA-T
"CCOFI CRUISE 5903
(MLR-118)"
STRANGER
"CCOFI CRUISE 5903
(MLR-118)"

1959: 18-26 Mar.

1959: 12-15 Mar.

33

DNO GC101 S4 no.118

31-684

Scripps Institution of Oceanography. "Data
Report." 1960.

SIO Ref. 60-37

ORCA

"CCOFI CRUISE 5904
(MLR-119)"

1959: 07-26 Apr.

PAOLINA-T

"CCOFI CRUISE 5904
(MLR-119)"

1959: 08-24 Apr.

STRANGER

"CCOFI CRUISE 5904
(MLR-119)"

1959: 10-26 Apr.

173

NODC Files

310685

Naval Oceanographic Office.

NODC Coding Forms

REHOBOTH

1961: 02 Apr.-23 Jun.

25

NODC Files

31-686

Scripps Institution of Oceanography. "Oceanic

31-686 - Continued

Observations of the Pacific 1955." Univ. California Press, 1962.	310690	Naval Oceanographic Office.
BLACK DOUGLAS		
"CCOFI CRUISE 5510 (MLR-77)"	1955: 16-30 Oct.	NODC Coding Forms
STRAKER	1955: 16-28 Oct.	NORTHWIND
"CCOFI CRUISE 5510 (MLR-77)"		1961: 11-19 Sep.
		NODC Files
109	31-691	Naval Oceanographic Office.
310687		
Coast and Geodetic Survey.		NODC Coding Forms
Oceanographic Log Sheets		CHANTICLEER
PATHFINDER	1959: 27 Jun.-02 Sep.	1966: 01-16 Apr.
30	60	NODC Files
310688	31-692	Naval Oceanographic Office.
Naval Oceanographic Office.		NODC Coding Forms
NODC Coding Forms		CHARLES H. DAVIS
EDISTO	1961: 13 Aug.-04 Oct.	19.6: 09 Feb.-30 May
85	25	NODC Files
310689	31-693	Environmental Science Services Administration, Institute for Oceanography, Miami.
Naval Oceanographic Office.		NODC Coding Forms
NODC Coding Forms		PEIRCE
STATEN ISLAND	1961: 06-18 Sep.	"CRUISE 21"
69	26	1966: 05-07 May
		NODC Files

31-694	Environmental Science Services Administration, Institute for Oceanography, Miami.		31-697 - Continued	
			12	NODC Files
			31-698	
			Coast Guard.	
			NODC Coding Forms	
	PEIRCE	1966: 01-03 Jun.	ABSECON	1966: 22 Aug.-12 Sep.
	"CRUISE 23"		"OWS BRAVO"	
			13	NODC Files
31-695	Environmental Science Services Administration, Institute for Oceanography, Miami.		310699	
			Coast Guard.	
			NODC Coding Forms	
	EXPLORER (U.S.)	1965: 08-11 Jul.	ESCANABA	1966: 15 Jul.-02 Aug.
	"OPR 438"		"OWS DELTA"	
			18	NODC Files
310696	Coast Guard.		31-700	
			International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.	
	NODC Coding Forms		Annee 1951 (Woods Hole Oceanographic Cruise)	
	WINNEBAGO	1966: 27 Mar.-26 May	ALBATROSS III (U.S.)	1951: 09 May-17 Oct.
	"OWS VICTOR"		41	DNO GC1 I62 1951
31-697	Coast Guard.		31-701	
			International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1953.	
	NODC Coding Forms			
	SPENCER	1966: 06-09 Sep.		

31-701 - Continued

Annee 1952 (Woods Hole Oceanographic Institution Cruise)

ALBATROSS III (U.S.) 1952: 02 Feb.-23 May
BEAR 1952: 15 Jul.-27 Sep.

120 DNO GC1 I62 1952

31-702
Coast Guard.

NODC Coding Forms

HUMBOLDT
"OWS BRAVO"

32

1966: 09 Mar.-03 Apr.

NODC Files

31-703
Coast Guard.

NODC Coding Forms

DUANE
"OWS CHARLIE"

14

1966: 05-26 May

NODC Files

310704

Coast Guard. "International Ice Observations and Ice Patrol Service." 1955.

Bulletin no.41

EVERGREEN
"INTERNATIONAL ICE PATROL"

1955: 01 Apr.-18 Jul.

310704 - Continued

296

DNO GB2401 U4 1955

31-705
Coast and Geodetic Survey.

NODC Coding Forms

PEIRCE

"OPR 458"

"GULF STREAM STUDIES"

"CRUISE 4"

1965: 15-18 Sep.

29

NODC Files

31-706
Coast Guard.

NODC Coding Forms

BARATARIA

1966: 05-08 Jan.

10

NODC Files

310707

Columbia University, Lamont Geological Observatory.

Punched Cards

ELTANIN

"CRUISE 7"

"CRUISE 8"

"CRUISE 9"

"CRUISE 10"

"CRUISE 11"

ELTANIN

"CRUISE 11"

"CRUISE 12"

1963: 09 Feb. to

1964: 22 Nov.

310707 - Continued

"CRUISE 13"
"CRUISE 14"
"CRUISE 15"

305

NODC Files

31-708

Naval Oceanographic Office.

NODC Coding Forms

CHARLES H. DAVIS

1965: 09-23 Aug.

32

NODC Files

31-709

University of Hawaii.

NODC Coding Forms

TERITU

"CRUISE 3"
"CRUISE 5"
"CRUISE 7"

1965: 19 Jul.-20 Nov.

45

NODC Files

31-710

University of Washington, Dept. of Oceanography.
"Technical Report 112 and 115, vol. I and II,
Physical, Chemical and Biological Data from the
Columbia River Effluent." 1964.

Refs. 64-68, 64-83, and 64-84

BROWN BEAR

"CRUISE 88-290"
"CRUISE 88-291"

1961: 06 Jul.-18 Dec.

31-710 - Continued

"CRUISE 88-292"
"CRUISE 88-293"
"CRUISE 88-297"

318

NODC Files

31-712

Oregon State University, Dept. of Oceanography.
"Data Report no.12, Hydrographic Data from Oregon
Waters." 1963.

Ref. 63-33

ACONA

1961: 19 Jun.-03 Dec.

129

NODC Files

31-713

Woods Hole Oceanographic Institution.

Reduced Data Cards

CRAWFORD

"CRUISE 34"

1959: 15 Oct.-01 Dec.

39

NODC Files

31-714

Bureau of Commercial Fisheries, Biological
Laboratory, Seattle.

Punched Cards

BERTHA ANN

1962: 14 Feb.-10 Apr.

44

NODC Files

NODC Files

Woods Hole Oceanographic Institution.

CHAIN 196J: 05-13 Oct.

NODC Files

Naval Oceanographic Office.

1966: 05-06 Jan.

NODC Files

Coast and Geodetic Survey.

1965: 03 Aug.-03 Oct.

NOOC Files

Coast Guard.

1966: 09-28 Jan.

MENDOTA
"ONE'S BRAVO"

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1957.

Annee 1953 (Woods Hole Oceanographic Institution Cruise)

ATLANTIS I
CARYN

107

31-721

Coast and Geodetic Survey.

NODC Coding Forms

PEIRCE
"OPR 458"
"CRUISE 6"

58

NODC Files

31-722

722 Texas A&M University. Dept. of Oceanography and Meteorology.

iiODC Coding Forms

**ALAMINOS
"CRUISE 66-A-1"**

19

NQDC Files

31-723

Environmental Science Services Administration,
Institute for Oceanography, Miami.

NODC Coding Forms

PEIRCE
"OPR 458"
"CRUISE 19"

1966: 05-06 Apr.

17

NODC Files

310724

Scripps Institution of Oceanography. "Data
Collected by Scripps Institution Vessels."
1957.

SIO Ref. 57-25

HORIZON
"EQUAPAC"
STRANGER
"EQUAPAC"

1956: 07 Aug.-02 Sep.

1956: 08 Aug.-20 Sep.

90

NODC Files

31-725

Environmental Science Services Administration,
Institute for Oceanography, Miami.

NODC Coding Forms

PEIRCE
"OPR 458"
"CRUISE 10"

1965: 15-18 Dec.

31

NODC Files

310726

Scripps Institution of Oceanography. "Data
Report." 1958.

SIO Ref. 58-64

BLACK DOUGLAS
"CCOFI CRUISE 5709
(MLR-100)"

1957: 13-15 Sep.

ORCA

1957: 16-19 Nov.

"CCOFI CRUISE 5711
(MLR-102)"

PAOLINA-T

"CCOFI CRUISE 5710
(MLR-101)"

1957: 23 Oct.-20 Dec.

"CCOFI CRUISE 5712
(MLR-103)"

STRANGER

1957: 04 Sep.-20 Dec.

"CCOFI CRUISE 5709
(MLR-100)"

"CCOFI CRUISE 5710
(MLR-101)"

"CCOFI CRUISE 5712
(MLR-103)"

183

DNO GC101 S4 no.100-103

31-727

Scripps Institution of Oceanography. "Data
Report." 1959.

SIO Ref. 58-63

BLACK DOUGLAS
"CCOFI CRUISE 5707
(MLR-98)"

1957: 11 Jul.-19 Aug.

"CCOFI CRUISE 5708
(MLR-99)"

31-727 - Continued

ORCA
"CCOFI CRUISE 5707
(MLR-98)"
PAOLINA-T
"CCOFI CRUISE 5707
(MLR-98)"
STRANGER
"CCOFI CRUISE 5707
(MLR-98)"
"CCOFI CRUISE 5708
(MLR-99)"

214

31-728

Scripps Institution of Oceanography. "Data
Report." 1959.

SIO Ref. 59-14

BLACK DOUGLAS
"CCOFI CRUISE 5004
(MLR-107)"
PAOLINA-T
"CCOFI CRUISE 5804
(MLR-107)"
SPENCER F. BAIRD
"CCOFI CRUISE 5804
(MLR-107)"
STRANGER
"CCOFI CRUISE 5804
(MLR-107)"

175

310729

Fish and Wildlife Service. "Marquesas Area
Oceanographic and Fishery Data." 1957.

310729 - Continued

Special Scientific Report-Fisheries no.238

HUGH M. SMITH
"CRUISE 38"

1957: 23 Jun.-25 Mar.

56

NODC Files

31-730

Scripps Institution of Oceanography. "Data
Report." 1958.

SIO Ref. 58-22

BLACK DOUGLAS
"CCOFI CRUISE 5702
(MLR-93)"
HORIZON
"CCOFI CRUISE 5702
(MLR-93)"
ORCA
"CCOFI CRUISE 5701
(MLR-92)"
SPENCER F. BAIRD
"CCOFI CRUISE 5702
(MLR-93)"

1957: 09-15 Feb.

1957: 08-15 Feb.

1957: 06-13 Jan.

1957: 08-25 Feb.

117

DNO GC101 S4 no.92, 93

31-731

Scripps Institution of Oceanography. "Data
Report." 1959.

SIO Ref. 59-8

BLACK DOUGLAS
"CCOFI CRUISE 5803
(MLR-106)"
PAOLINA-T

1958: 28 Feb.-20 Mar.

1958: 07-10 Feb.

31-731 - Continued

"CCOFI CRUISE 5802
(MLR-105)"
STRANGER
"CCOFI CRUISE 5802
(MLR-105)"
"CCOFI CRUISE 5803
(MLR-106)"

1958: 10 Feb.-19 Mar.

57

DNO GC101 S4 no.105, 106

31-732

Scripps Institution of Oceanography. "Data
Report." 1958.

SIO Ref. 58-24

BLACK DOUGLAS
"CCOFI CRUISE 5704
(MLR-95)"
HORIZON
"CCOFI CRUISE 5704
(MLR-95)"
STRANGER
"CCOFI CRUISE 5704
(MLR-95)"

1957: 08-17 Apr.

1957: 11-30 Apr.

1957: 13-29 Apr.

167

DNO GC101 S4 no.94, 95

31-733

Scripps Institution of Oceanography. "Data
Report." 1959.

SIO Ref. 59-28

BLACK DOUGLAS
"CCOFI CRUISE 5805
(MLR-108)"
PAOLINA-T

1958: 09-15 May

1958: 04-14 May

31-733 - Continued

"CCOFI CRUISE 5805
(MLR-108)"
STRANGER
"CCOFI CRUISE 5805
(MLR-108)"

1958: 09-17 May

18

DNO GC101 S4 no.108

31-734

Scripps Institution of Oceanography. "Data
Report." 1959.

SIO Ref. 58-84

BLACK DOUGLAS
"CCOFI CRUISE 5809
(MLR-112)"
ORCA
"CCOFI CRUISE 5809
(MLR-112)"

1958: 05-09 Sep.

1958: 10-19 Sep.

58

DNO GC101 S4 no.112

31-735

Naval Oceanographic Office.

NODC Coding Forms

SANDS

"AGOR CRUISE 06-66-06"
"AGOR CRUISE 06-66-07"

1966: 13-28 Jul.

17

" Files

31-736

Coast Guard

NODC Coding Forms

31-736 - Continued

HUMBOLDT
"GWS CHARLIE"

23

NODC Files

1966: 03-25 Aug.

31-737

Environmental Science Services Administration,
Institute for Oceanography, Miami.

NODC Coding Forms

PEIRCE

"OPR 458"

"CRUISE 22"

"CRUISE 24"

"CRUISE 25"

1966: 18 May-30 Jun.

78

NODC Files

31-738

Arctic Institute of North America. "Oceanographic
Observations Beaufort Sea."

Manuscript Report

ICE ISLAND T-3

1959: 09 Jun.-09 Sep.

12

NODC Files

31-739

Scripps Institution of Oceanography. "Data
Collected by Scripps Institution Vessels." 1956.

SIO Ref. 56-28

SPENCER F. BAIRD

"EASTROPIC EXPEDITION"

HORIZON

1955: 02 Oct.-13 Dec.

1955: 03 Oct.-15 Dec.

31-739 - Continued

"EASTROPIC EXPEDITION"

186

NODC Files

31-740

Fish and Wildlife Service. "Mid-Pacific Oceanography, Part VIII; Middle Latitude Waters." 1956.

Special Scientific Report-Fisheries no.180

HUGH M. SMITH

"CRUISE 25"

1954: 16 Jan.-16 Mar.

189

NODC Files

31-741

Duke University, Marine Laboratory, Beaufort,
N.C.

NODC Coding Forms

EASTWARD

"CRUISE E-6-66"

1966: 23 Feb.-03 Mar.

46

NODC Files

31-742

Duke University, Marine Laboratory, Beaufort,
N.C.

NODC Coding Forms

EASTWARD

"CRUISE E-23-66"

1966: 21-25 Jun.

46

NODC Files

31-743

Scripps Institution of Oceanography. "Data Report." 1958.

SIO Ref. 58-33

HORIZON

"CCOFI CRUISE 5706
(MLR-97)"

1957: 07-12 Jun.

STRANGER

"CCOFI CRUISE 5706
(MLR-97)"

1957: 07-21 Jun.

75

DNO GC101 S4 no.
96,97

31-744

Duke University, Marine Laboratory, Beaufort,
N.C.

NODC Coding Forms

EASTWARD

"CRUISE E-29-66"

1966: 25-30 Jul.

17

NODC Files

31-745

Naval Oceanographic Office.

NODC Coding Forms

CHARLES H. DAVIS

"AGOR CRUISE 05-66-04"

1966: 19 Jun.-08 Jul.

24

NODC Files

31-746

Scripps Institution of Oceanography. "Data Report." 1959.

SIO Ref. 59-03

BLACK DOUGLAS

"CCOFI CRUISE 5801
(MLR-104)"

1958: 09-21 Jan.

PAOLINA-T

"CCOFI CRUISE 5801
(MLR-104)"

1958: 14 Jan.-02 Feb.

STRANGER

"CCOFI CRUISE 5801
(MLR-104)"

1958: 14 Jan.-02 Feb.

151

DNO GC101 S4 no.104

310747

University of Washington, Dept. of Oceanography.
"Technical Report no.51-Physical and Chemical
Data Puget Sound and Approaches." 1956.

Ref. 56-13

BROWN BEAR

"CRUISE BB-80"

"CRUISE BB-81"

"CRUISE BB-83"

"CRUISE BB-87"

"CRUISE BB-94"

"CRUISE BB-100"

"CRUISE BB-102"

"CRUISE BB-103"

"CRUISE BB-109"

"CRUISE BB-111"

BROWN BEAR

"CRUISE BB-119"

1955: 03 Jan.-11 Nov.

1956: 23 Jan.-16 Mar.

310747 - Continued

"CRUISE BB-129"
"CRUISE BB-130"
"CRUISE BB-136"

593

DNO GC856 W2A4 no.51

310748

University of Washington, Dept. of Oceanography.
"Special Report no.22, Preliminary Data Report-
NORPAC 1955." 1956.

Ref. 56-4

BROWN BEAR

"NORPAC 1955"

"CRUISE BB-110"

77

DNO 781 W2N8

31-749

Coast Guard.

NODC Coding Forms

GRESHAM

"PACIFIC STANDARD SEC-
TION 4"

"OWS NOVEMBER"

42

NODC Files

31-750

Woods Hole Oceanographic Institution.

Reduced Data Sheets

ATLANTIS I

"CRUISE 233"

1957: 22 Apr.-05 Sep.

31-750 - Continued

25

NODC Files

31-751

Woods Hole Oceanographic Institution.

Tabular Data

ATLANTIS I

"CRUISE 229"

1956: 12 Nov.-11 Dec.

60

NODC Files

31-752

Woods Hole Oceanographic Institution.

Reduced Data Sheets

CHAIN

"CRUISE 35"

1963: 26 Jan.-01 Feb.

12

NODC Files

31-753

Woods Hole Oceanographic Institution.

Reduced Data Sheets

CHAIN

"CRUISE 48"

1965: 19 May-10 Jun.

38

NODC Files

31-754

Woods Hole Oceanographic Institution.

Reduced Data Sheets

CRAWFORD

1963: 11-22 Sep.

31-754 - Continued

"CRUISE 98"

36

NODC Files

310755

University of Washington, Dept. of Oceanography.
"Technical Report no.55, Northeast Pacific
Ocean, Physical and Chemical Data." 1955.

Ref. 57-27

JOHN M. COBB

JOHN M. COBB

BROWN BEAR

"CRUISE 88-108"

BROWN BEAR

"CRUISE 88-144"

1955: 15 Jun. to

1956: 31 Aug.

1955: 15 Jun. to

1956: 31 Aug.

92

NODC Files

310757

University of Washington, Dept. of Oceanography
"Special Report no.28, Northeast Pacific Ocean
and Gulf of Alaska, Physical and Chemical Data."
1957.

Ref. 57-3

JOHN M. COBB

MITKOF

PARAGON

72

NODC Files

310758

Coast Guard.

NODC Coding Forms

310758 - Continued

CHAUTAUQUA

"OWS VICTOR"

10

NODC Files

1966: 13-28 Feb.

31-759

Naval Oceanographic Office.

NODC Coding Forms

GILLIS

"MILOC 66"

56

NODC Files

1966: 05-15 Jul.

31-760

Woods Hole Oceanographic Institution.

Reduced Data Sheets

CRAWFORD

"CRUISE 122"

13

NODC Files

1965: 08-15 Feb.

31-761

University of Washington, Dept. of Meteorology
and Climatology. "Station Arlis-1 Oceanography,
Part II, Tables." 1962.

Scientific Report, (ONR Contract 477-24)
(NR 307-252)

ARLIS I (STATION)

ARLIS I (STATION)

118

NODC Files

1960: 26 Sep. to

1961: 12 Mar.

31-765 - Continued

31-762	Coast Guard.				
	NODC Coding Forms			17	NODC Files
CAMPBELL		1966: 27 Aug.-16 Sep.		31-766	Environmental Science Services Administration, Institute for Oceanography, Miami.
"OWS DELTA"					
13		NODC Files			NODC Coding Forms
31-763	Naval Oceanographic Office.			PEIRCE	1966: 16 Feb.-06 Mar.
	NODC Coding Forms			"OPR 458"	
SANDS		1966: 15-22 Sep.		"CRUISE 15"	
"CRUISE 06-01-67"				"CRUISE 16"	
LYNCH		1966: 15-21 Sep.		62	NODC Files
"CRUISE 07-01-67"				31-767	
4		NODC Files		Coast Guard.	
31-764	Naval Oceanographic Office.				NODC Coding Forms
	NODC Coding Forms			YAKUTAT	1966: 21 Sep.-13 Oct.
EDISTO		1965: 17-18 Sep.		"OWS ECHO"	
LABRADOR		1965: 01-20 Oct.		23	NODC Files
28		NODC Files		31-768	
31-765	Coast Guard.			Coast Guard.	
	NODC Coding Forms				NODC Coding Forms
8188		1966: 17 Sep.-03 Oct.		KLAMATH	1966: 11 Sep.-01 Oct.
				"OWS NOVEMBER"	
				21	NODC Files

31-769	Environmental Science Services Administration, Institute for Oceanography, Miami.		31-772 - Continued	
	NODC Coding Forms		HUMBOLDT	1966: 12 Oct.-02 Nov.
	PEIRCE	1966: 12-15 Jul.	"OWS DELTA"	
	"OPR 458"		17	NODC Files
	"CRUISE 26"			
26		NODC Files		
31-770	Coast Guard.		310773	University of Washington, Dept. of Oceanography. "Technical Report 46-Physical and Chemical Data Puget Sound and Approaches." 1956.
	NODC Coding Forms		Ref. 56-7	
KLAMATH		1966: 01-05 Oct.	BROWN BEAR	1954: 11 Jan.-14 Dec.
"Pacific Standard Section P-4"			"CRUISE BB-46"	
24		NODC Files	"CRUISE BB-47"	
31-771	Coast Guard.		"CRUISE BB-48"	
	NODC Coding Forms		"CRUISE BB-50"	
DUANE		1966: 02-28 Oct.	"CRUISE BB-53"	
"OWS BRAVO"			"CRUISE BB-55"	
11		NODC Files	"CRUISE BB-58"	
31-772	Coast Guard.		"CRUISE BB-60"	
	NODC Coding Forms		"CRUISE BB-62"	
			"CRUISE BB-63"	
			"CRUISE BB-64"	
			"CRUISE BB-66"	
			"CRUISE BB-68"	
			"CRUISE BB-70"	
			"CRUISE BB-72"	
			"CRUISE BB-73"	
			"CRUISE BB-77"	
			1024	DNO 856 W2A4 no.46
			31-774	
			Coast Guard.	
			NODC Coding Forms	

31-774 - Continued

YAKUTAT	1966: 01-03 Nov.	31-778	Naval Oceanographic Office.
7	NODC Files		NODC Coding Forms
310775	University of Washington, Dept. of Oceanography. "Technical Report no.35, Physical and Chemical Data Puget Sound and Approaches." 1954.	LYNCH	1966: 17 Apr.-07 May
Ref. 54-23		2	NODC Files
BROWN BEAR	1952: 13 Oct.-20 Dec.	31-779	Coast Guard.
"CRUISE 88-10"			NODC Coding Forms
"CRUISE 88-15"			EVERGREEN
"CRUISE 88-17"			1966: 01-14 Feb.
"CRUISE 88-18"			NODC Files
222	DNO GC856 W2A4 no.35	53	
310776	Scripps Institution of Oceanography. "Results of Oceanographic Survey at Eniwetok." 1957.	310780	Scripps Institution of Oceanography. "Data Report." 1959.
Publication		SIO Ref. 59-29	
HUGH M. SMITH	1956: 28 Nov.-11 Dec.	BLACK DOUGLAS	1958: 07-12 Jun.
"CRUISE 37"		"CCOFI CRUISE 5806 (MLR-109)"	
26	DNO GC791 S4	ORCA	1958: 05-24 Jun.
31-777		"CCOFI CRUISE 5806 (MLR-109)"	
Naval Oceanographic Office.		STRANGER	1958: 07-18 Jun.
NODC Coding Forms		"CCOFI CRUISE 5806 (MLR-109)"	
NORTHWIND	1965: 25 Jul.-02 Oct.	18	DNO GC101 S4 no.109
163	NODC Files		

164

310786 - Continued

CASCO
"OWS BRAVO"

1966: 29 Apr.-20 May

11

NODC Files

31-787

Coast Guard.

NODC Coding Forms

DUANE

"OWS BRAVO"

1966: 24 Feb.-13 Mar.

8

NODC Files

310789

University of Washington, Dept. of Oceanography.
"Technical Report no.45, Physical and Chemical
Data Puget Sound and Approaches." 1956.

Ref. 56-1

BROWN BEAR

"CRUISE BB-20"
"CRUISE BB-21"
"CRUISE BB-23"
"CRUISE BB-24"
"CRUISE BB-27"
"CRUISE BB-30"
"CRUISE BB-32"
"CRUISE BB-34"
"CRUISE BB-35"
"CRUISE BB-36"
"CRUISE BB-39"
"CRUISE BB-42"
"CRUISE BB-44"

1953: 21 Jan.-23 Dec.

ONCORHYNCHUS

310789 - Continued

682

NODC Files

31-790

Columbia University, Lamont Geological Observ-
atory.

Punched Cards

ELTANIN

"CRUISE 16"
"CRUISE 17"
"CRUISE 18"
"CRUISE 19"
"CRUISE 20"
"CRUISE 21"

1965: 03 Feb. to

ELTANIN

"CRUISE 21"

1966: 05 Jan.

114

NODC Files

31-791

Naval Oceanographic Office.

NODC Coding Forms

LYNCH

1966: 17 Apr.-23 Jun.

10

NODC Files

31-792

Coast Guard.

NODC Coding Forms

DUANE

1966: 03-06 Jul.

10

NODC Files

31-793 Coast Guard.		BROWN BEAR "CRUISE BB-142" "CRUISE BB-143"	1956: 04 May-12 Jul.
NODC Coding Forms		BROWN BEAR "CRUISE BB-163"	1957: 04 Mar.-03 Apr.
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20	NODC Files	31-798 Coast Guard.	
31-795 Coast Guard.		NODC Coding Forms	
NODC Coding Forms		BERING STRAIT "OWS VICTOR"	1966: 31 Jul.-19 Aug.
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 (MLR-81)"
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 (MLR-81)"
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 SIO Ref. 58-85
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 1956: 08 Jul.-07 Aug.
 1957: 14 Jul.-26 Aug.
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 HUGH M. SMITH
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 1957: 28 Sep.-17 Oct.

310804 - Continued

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31-805 University of Washington, Dept. of Oceanography.
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374 NODC Files

310806 Fish and Wildlife Service. "Preliminary Report on Expedition Eastropic." 1957.
Special Scientific Report-Fisheries no.201

HUGH M. SMITH
"EASTROPIC"

1955: 23 Sep.-17 Dec.

35 DNO SH11 FWS no.201

31-807 Coast Guard.
NODC Coding Forms

EDISTO

119 NODC Files

31-808 Naval Oceanographic Office.
NODC Coding Forms

GILLISS

1964: 30 Oct.-10 Nov.

31-808 - Continued

"CRUISE 04-64-21"
GILLISS

1965: 29 Mar.

"CRUISE 05-65-06"
GILLISS

1966: 26 Mar.-19 Oct.

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22 NODC Files

310810 Fish and Wildlife Service. "Physical, Chemical and Biological Oceanographic Observations ... Eastern Tropical Pacific." 1958.
Special Scientific Report-Fisheries no.279

STRANGER
"EXPEDITION SCOPE"

1956: 10 Nov.-13 Dec.

26 DNO SH11 FWS no.279

310811 Fish and Wildlife Service. "Summary, Oceanographic and Fishery Data, Marquesas Island Areas." 1957.
Special Scientific Report-Fisheries no.217

HUGH M. SMITH
"EQUAPAC"

1956: 09 Aug.-05 Oct.

91 NODC Files

31-812 Naval Oceanographic Office.
NODC Coding Forms

31-812 - Continued

SANDS
"CRUISE 06-65-01"

1965: 03-22 Apr.

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31-813

Environmental Science Services Administration,
Institute for Oceanography, Miami.

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310816

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graphic Data from the Caribbean Sea for the IGY
of 1957-1958." 1959.

WHOI Ref. 59-9

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1958: 11 Feb.-20 Mar.

89

NODC Files

31-817

Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS II
"CRUISE 11"

1964: 18 Jul.-05 Aug.

31-817 - Continued

9

NODC Files

31-818

Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS II
"CRUISE 22"

1966: 26 Jul.-02 Aug.

6

NODC Files

310819

Coast Guard.

NODC Coding Forms

MCCULLOCH

"CRUISE B-22"
"OWS BRAVO"

1966: 24 Nov.-12 Dec.

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NODC Files

310820

Scripps Institution of Oceanography. "Data
Report." 1959.

SIO Ref. 59-58

SPENCER F. BAIRD

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(MLR-116)"

1959: 07-27 Jan.

ORCA

"CCOFI CRUISE 5901
(MLR-116)"

1959: 07-20 Jan.

BLACK DOUGLAS

"CCOFI CRUISE 5901
(MLR-116)"

1959: 16-30 Jan.

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31-821	Scripps Institution of Oceanography. "Data Report." 1959.	Scripps Institution of Oceanography. "Data Report." 1959.
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56	DNO GC101 S4 no.114, 115	23
31-822	Scripps Institution of Oceanography. "Data Report." 1959.	31-824
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HORIZON		49
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PAOLINA-T		
"CCOFI CRUISE 5810 (MLR-113)"	1958: 08-20 Oct.	NODC Coding Forms
STRANGER		LABRADOR
"CCOFI CRUISE 5810 (MLR-113)"	1958: 13 Oct.-05 Nov.	24
191	DNO GC101 S4 no.113	31-826
		Coast Guard.
		NODC Coding Forms
		1966: 30 Sep.-15 Oct.
		NODC Files

31-826 - Continued

CHINCOTEAGUE
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NODC Files

1966: 26 Nov.-17 Dec.

310827

University of Miami, Institute of Marine Sciences
Marine Laboratory. "Physical and Chemical Data
Straits of Florida."

Technical Report 58-5

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1957: May to
1958: Nov.

105

NODC Files

31-828

Naval Oceanographic Office.

NODC Coding Forms

EDISTO

1965: 18 Apr.-08 May

36

NODC Files

31-829

Naval Oceanographic Office.

NODC Coding Forms

EDISTO

1965: 21 Aug.-18 Sep.

51

NODC Files

31-830

Naval Oceanographic Office.

31-830 - Continued

NODC Coding Forms

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1965: 10 Dec. to
1966: 03 Jan.

60

NODC Files

310831

Woods Hole Oceanographic Institution. "Oceanogra-
phic Data Trans-Atlantic Sections at Equator and
24 South for the IGY of 1957-1958." 1960.

WHOI Ref. 60-3

CRAWFORD

1958: 02 Oct.-29 Nov.

"CRUISE 22"

"IGY 1957/1958"

89

NODC Files

31-832

Naval Oceanographic Office.

NODC Coding Forms

GILLISS

1966: 08-12 Dec.

"CRUISE 04-66-13"

8

NODC Files

31-833

Coast Guard.

NODC Coding Forms

WACHUSETT

1966: 19 Nov.-03 Dec.

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"CRUISE N-03"

31-833 - Continued

12 NODC Files

310834 Columbia University, Lamont Geological Observatory.
"Oceanographic Data obtained in the Indian Ocean,
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Technical Report CU-10-60 AT (30-1)

VEMA 1958: 14 Apr.-28 Jun.

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OCEAN EXPEDITION"
"IGY 1958"

VEMA 1959: 29 Dec. to

"CRUISE 16"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

VEMA 1960: 16 Feb.

"CRUISE 16"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

56 NODC Files

31-835 Woods Hole Oceanographic Institution.

Punched Cards

CHAIN 1966: 16 Oct.-08 Nov.

"CRUISE 61"

21 NODC Files

31-836 Woods Hole Oceanographic Institution.

31-836 - Continued

Punched Cards

ATLANTIS II 1966: 07-15 Nov.

15 NODC Files

310837 Woods Hole Oceanographic Institution. "Oceano-
graphic Data for the IGY of 1957-1958." 1960.

WHOI Ref. 60-40

ATLANTIS I 1959: 12 Feb.-10 Jul.

"CRUISE 247"
"IGY 1957/1958"

96 NODC Files

310838 Woods Hole Oceanographic Institution. "Oceano-
graphic Data from Mediterranean Sea, Red Sea,
Gulf of Aden and Indian Ocean for the IGY of
1957-1958." 1959.

WHOI Ref. 60-2

ATLANTIS I 1959: 16 May-03 Aug.

"CRUISE 242"
"IGY 1957/1958"

51 NODC Files

310839 Scripps Institution of Oceanography. "Data
Report." 1960.

SIO Ref. 60-6

310839 - Continued

BLACK DOUGLAS
"CCOFI CRUISE 5604
(MLR-83)"
SPENCER F. BAIRD
"CCOFI CRUISE 5604
(MLR83)"
STRANGER
"CCOFI CRUISE 5604
(MLR-83)"

69

310840

Bureau of Commercial Fisheries.

Reduced Data Cards

HUGH M. SMITH
"CRUISE 33"
"CRUISE 34"
"CRUISE 36"

69

31-841

Naval Oceanographic Office.

Tabular Data

NORTHWIND

69

31-842

Coast Guard.

NODC Coding Forms

1956: 08-19 Apr.

1956: 09-26 Apr.

1956: 09-26 Apr.

Files

1956: 09 Mar.-05 Nov.

NODC Files

1960: 12 Oct.-16 Nov.

NODC Files

31-842 - Continued

BARATARIA
"OWS CHARLIE"
"CRUISE C-09"

19

NODC Files

31-843
Coast Guard.

NODC Coding Forms

WACHUSETT
PACIFIC STANDARD
SECTION 4"
"CRUISE P-42"

1966: 04-06 Dec.

11

NODC Files

31-844

Woods Hole Oceanographic Institution.

Reduced Data Cards

PANULIRUS
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1963: 11 Sep. to
1964: to
1965: to
1966: 04 Oct.

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1966: 21 Apr.-23 Aug.

31-845 - Continued

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32 NODC Files

31-846 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1961.

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54 NODC Files

310847 Scripps Institution of Oceanography. "Data Report." 1960.

SIO Ref. 60-13

BLACK DOUGLAS 1959: 14-25 Feb.

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PAOLINA-T 1959: 07-13 Feb.

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87 NODC Files

310848 Coast Guard. "International Ice Observation and Ice Patrol Service." 1960.

310848 - Continued

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EVERGREEN 1959: 05 Apr.-09 Aug.

"INTERNATIONAL ICE PATROL"

394 NODC Files

310849 Coast Guard. "International Ice Observation and Ice Patrol Service." 1969.

Bulletin no.44

EVERGREEN 1958: 03 Apr.-06 Jul.

"INTERNATIONAL ICE PATROL"

317 NODC Files

31-850 Coast Guard.

NODC Coding Forms

DUANE 1967: 10 Jan.-03 Feb.

"CRUISE DO 6"

"OWS DELTA"

20 NODC Files

31-851 Bureau of Commercial Fisheries, Biology Laboratory, Seattle.

Punched Cards

GEORGE B. KELEZ 1963: 03 Jul.-09 Sep.

31-851 - Continued

44 NODC Files

31-852
Bureau of Commercial Fisheries, Biology Laboratory, Seattle.
Punched Cards

GEORGE B. KELEZ
"CRUISE 166"

57 NODC Files

31-854
Naval Oceanographic Office.
NODC Coding Forms

CHARLES H. DAVIS
"AGOR CRUISE 05-67-05"

2 NODC Files

31-855
Coast Guard.
NODC Coding Forms

MCCULLOCH
"CRUISE E 03"
"OWS ECHO"

18 NODC Files

31-856
Naval Oceanographic Office.
NODC Coding Forms

31-856 - Continued

ENERGY

7 NODC Files

310857
Fish and Wildlife Service. "Northeastern Pacific Albacore Survey, Part 2." 1959.
Special Scientific Report-Fisheries no.315

HUGH M. SMITH
"CRUISE 40"
"OPERATION NEPAS"

1957: 01 Jul.-05 Sep.

67 NODC Files

31-858
Coast Guard.
NODC Coding Forms

DUANE
"CRUISE NB 7"

1967: 03-17 Mar.

4 NODC Files

310859
University of Miami, Marine Laboratory.
Original Data Sheets

GERDA
"CRUISE GE 6101"
"TOTO"

1961: 23-28 Jan.

34 NODC Files

310860	Fish and Wildlife Service. "Biological and Oceanographic Observations in the Central North Pacific." 1960.	1960: 05 Feb.-14 Apr.
	Special Scientific Report-Fisheries no.358	
	HUGH M. SMITH	
	"CRUISE 46"	
52	NODC Files	
31-861	Naval Oceanographic Office.	
	NODC Coding Forms	
ATCA	"CRUISE 202"	
100	NODC Files	
31-862	Coast Guard.	
	NODC Coding Forms	
GRESHAM	"CRUISE NO 4"	
	"OWS NOVEMBER"	
18	NODC Files	
310864	Coast and Geodetic Survey.	
	Original Data Sheets	
	EXPLORER (U.S.)	
49	NODC Files	
310865	Naval Oceanographic Office.	
	NODC Coding Forms	
	REQUISITE	
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"	
	1961: 04 Jan.-31 Mar.	
206	NODC Files	
31-866	Naval Oceanographic Office.	
	NODC Coding Forms	
	ABNAKI	
	1965: 17-19 Feb.	
42	NODC Files	
310867	Naval Oceanographic Office.	
	NODC Coding Forms	
	BURTON ISLAND	
	"DEEP FREEZE 1962"	
	1962: 25 Jan.-03 Feb.	
26	NODC Files	
310868	Naval Oceanographic Office.	
	NODC Coding Forms	

310868 - Continued

GLACIER
"DEEP FREEZE 1962"

10

1962: 23 Jan.-19 Feb.

NODC Files

310869

University of Miami, Institute of Marine Sciences
Marine Laboratory. "Data obtained in Florida
Straits and off the West Coast of Florida." 1961.

Ref. 61-1

GERDA

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"CRUISE GE-6004"
"CRUISE GE-6005"
"CRUISE GE-6007"
"CRUISE GE-6008"
"CRUISE GE-6012"

PANDA

"CRUISE P-6002"

318

31-870

Coast Guard.

NODC Coding Forms

HUMBOLDT

"CRUISE B 22"
"OWS BRAVO"

20

NODC Files

310871

Coast Guard.

310871 - Continued

NODC Coding Forms

HUMBOLDT

"CRUISE A 24"
"ATLANTIC STANDARD
SECTION 2"

13

NODC Files

1967: 02-03 Feb.

31-872

Coast Guard.

NODC Coding Forms

MENDOTA

"OWS CHARLIE"
"CRUISE C-10"

19

NODC Files

1967: 23 Feb.-17 Mar.

31-873

Coast Guard.

NODC Coding Forms

BERING STRAIT

"OWS VICTOR"

"CRUISE V-10"

BERING STRAIT

"OWS VICTOR"

"CSK"

"CRUISE V-11"

27

NODC Files

1966: 27 Dec. to

1967: 25 Feb.

31-874

Naval Oceanographic Office.

31-874 - Continued

NODC Coding Forms

CHARLES H. DAVIS
"AGOR CRUISE 05-67-06"

16

NODC Files

1967: 20-28 Mar.

31-875
Coast Guard.

NODC Coding Forms

BIBB
"CRUISE 8-23"
"UWS BRAVO"
"ATLANTIC STANDARD
SECTION 2"

1957: 24 Feb.-16 Mar.

20

NODC Files

31-876
Scripps Institution of Oceanography. "Data
Report." 1961.

SIO Ref. 61-9

HORIZON
"STEP-I EXPEDITION"

99

NODC Files

1960: 15 Sep.-14 Dec.

31-877
Naval Oceanographic Office.

NODC Coding Forms

FLORIKAN

1966: 27 Aug.-10 Sep.

31-877 - Continued

43

NODC Files

31-879
Coast Guard.

NODC Coding Forms

SPENCER
"UWS BRAVO"
"CRUISE 6-14"

1966: 01-14 Feb.

6

NODC Files

31-880
Naval Oceanographic Office.

NODC Coding Forms

GLACIER
"DEEP FREEZE 67"
STATEN ISLAND
"DEEP FREEZE 67"

1967: 30 Jan.-16 Feb.

1967: 19 Feb.-01 Mar.

62

NODC Files

31-881

Bureau of Commercial Fisheries, Biological Laboratory, Auke Bay, Alaska.

NODC Coding Forms

MURRE II
"AUKE BAY MONITOR"
FUBAR
"AUKE BAY MONITOR"

1966: 10 May-20 Dec.

1966: 28 Sep.-26 Oct.

22

NODC Files

NODC Coding Forms

Naval Oceanographic Office.

PREVAIL 1961: 02-15 Aug.

NODC Files

Naval Oceanographic Office.

SAN PABLO

1961: 23 Aug.-07 Oct.

Naval Oceanographic Office.

REWEIGHT

NODC Files

Naval Oceanographic Office.

1955. 26 Jan. -05 Feb.

NODC Files

Coast Guard.

"OWS CHARLIE"
"CRUISE C-11"

NUDC Files

Coast Guard.

ESCANABA

"OWS BRAVO"
"CRUISE B-2"

NODC Files

Naval Oceanographic Office.

1961: 17 Nov.-12 Dec.

"OWS DELTA"
"CRUISE D-07"

NODC Files

Woods Hole Oceanographic Institution.

CHAIN

1967: 16-27 Feb.

31-890 - Continued

7

NODC Files

31-891

Naval Civil Engineering Laboratory, Port
Hueneme, Calif.

Unpublished Data Reports (13)

CHARLES H. DAVIS
"CRUISE A-311-1"
"CRUISE A-312-1"
CHARLES H. DAVIS
"CRUISE A-401-1"
"CRUISE A-401-2"
"CRUISE A-412-1"
CHARLES H. DAVIS
"CRUISE A-503-1"
"CRUISE A-509-1"
CHARLES H. DAVIS
"CRUISE A-601-1"
"CRUISE A-612-1"
MOLALA
"CRUISE A-403-1"
"CRUISE A-406-1"
"CRUISE A-407-1"
SIOUX
"CRUISE A-408-1"

44

31-892

Coast and Geodetic Survey.

NODC Coding Forms

SURVEYOR

1967: 24 Mar.-07 Apr.

31-892 - Continued

3

NODC Files

31-893

Coast Guard.

NODC Coding Forms

CASCO

1967: 16-17 May

10

NODC Files

31-894

University of Washington, Dept. of Oceano-
graphy.

Magnetic Tape

BROWN BEAR
"CRUISE BB-31"

1953: 01-13 Aug.

14

NODC Files

31-895

University of Washington, Dept. of Oceano-
graphy.

Magnetic Tape

BROWN BEAR
"CRUISE BB-33"

1953: 03-13 Sep.

60

NODC Files

31-896

University of Washington, Dept. of Oceano-
graphy.

Magnetic Tape

31-396 - Continued

BROWN BEAR
"CRUISE BB-253"

1960: 20 Feb.-28 Mar.

NODC File.

26

NODC Files

310899

University of Washington, Dept. of Oceanography.
"Technical Report 69, Physical and Chemical Data
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Sea." 1961.

Ref. 51-24

BROWN BEAR
"CRUISE BB-236"
BROWN BEAR
"CRUISE BB-268"

1959: 02 Aug.-01 Sep.

1960: 26 Jul.-28 Aug.

285

NODC Files

31-900

Naval Oceanographic Office.

NODC Coding Forms

BURTON ISLAND

1966: 31 Jul.-24 Aug.

NODC Coding Forms

61

NODC Files

1966: 13 Nov.-03 Dec.

31-902

Coast Guard.

NODC Coding Forms

WINNEBAGO
"OWS VICTOR"
"CRUISE V-07"

1966: 02-21 Oct.

31-906
Woods Hole Oceanographic Institution.

Reduced Data Cards

31-902 - Continued

18

NODC File.

31-903

Naval Oceanographic Office.

NODC Coding Forms

CHARLES H. DAVIS
"CRUISE 05-67-02"

1967: 20-24 Jan.

4

NODC Files

31-904

Naval Oceanographic Office.

NODC Coding Forms

SANDS

"CRUISE 06-67-01"

1967: 14-17 Jan.

3

NODC Files

31-905

Coast Guard.

NODC Coding Forms

WINNEBAGO
"OWS VICTOR"
"CRUISE V-09"

18

NODC Files

31-906 - Continued

ATLANTIS II "CRUISE 26"	1966:	310911	Arctic Institute of North America. "Some Biological Oceanographic Observations in the North Polar Sea." 1961.
38	NODC Files		
31-908 Duke University, Marine Biological Laboratory, Beaufort, N.C.			Research Paper 13 (Air Force Cambridge Research Laboratory Scientific Report no15.)
NODC Coding Forms			
EASTWARD "CRUISE E-51-66"	1966: 12-16 Dec.		DRIFT STATION ALPHA 1958: 03 Jun.-10 Oct.
40	NODC Files	22	NODC Files
31-909 Naval Oceanographic Office.		31-913	University of Miami, Institute of Marine Sciences Marine Laboratory. "Data obtained in Florida Straights and off the West Coast of Florida." 1961.
NODC Coding Forms			Ref. no.61-3
SILAS BENT "CRUISE 26-67-01"	1967: 24 Jan.-04 Feb.	GERDA	1960: Jul.-Dec.
7	NODC Files	"CRUISE GE 6018" "CRUISE GE 6019" "CRUISE GE 6021" "CRUISE GE 6024"	
31-910 Duke University, Marine Biological Laboratory, Beaufort, N. C.		230	NODC Files
NODC Coding Forms		310915	Naval Oceanographic Office.
EASTWARD "CRUISE E-47-66"	1966: 25-29 Nov.		NODC Coding Forms
38	NODC Files	MENDOTA	1961: 28 Nov.
		6	NODC Files

31-919 - Continued

31-916	Scripps Institution of Oceanography. "Data Report." 1961.		
	SIO Ref. 61-22		1966: 27 Aug.-26 Sep.
			NODC Files
	HORIZON		
	"RCOFI CRUISE 5612 (MLR 91)"	1956: 24 Nov.-21 Dec.	
61		NODC Files	
31-917	Naval Oceanographic Office.		
	NODC Coding Forms		
	SAN PABLO	1961: 17-20 Nov.	
10		NODC Files	
31-918	Woods Hole Oceanographic Institution. "U.S. Program in Biology." 1965.		
	Final Cruise Reports, Cruises 7-8,99-(2v.)		
	ANTON BRUUN	1964: 29 Jul.-28 Dec.	
	"CRUISE 7"		
	"CRUISE 8"		
	"CRUISE 9"		
	"INTERNATIONAL INDIAN OCEAN EXPEDITION."		
66		NODC Files	
31-919	Naval Oceanographic Office.		
			1949: 04 Feb.-16 Apr.
	NODC Coding Forms		
	NORTHWIND		
	131		
			NODC Files
310920	U.S. Naval Electronics Laboratory & U.S. Naval Oceanographic Office. "Oceanic Observations of the Pacific Pre-1949." Univ. California Press, 1961.		
	FIBERLING	1947: 16 Feb.-07 Jul.	
	HIDATSA	1947: 29 Aug.	
	LOUISVILLE	1936: 24-30 Nov.	
60		NODC Library	
31-921	Naval Oceanographic Office.		
	Manuscript Data		
	SAN PABLO	1949: 05 Feb.-16 Apr.	
	"CRUISE SP-1-50"		
	"AMOS"		
34		NODC Files	
31-922	Naval Oceanographic Office.		
	Manuscript data		
	"EHJBOTH"		
	"CRUISE RE-1-51"		
	"AMOS"		

31-922 - Continued

112

NODC Files

31-923

Naval Oceanographic Office.

Manuscript data

SAN PABLO

"CRUISE SP 2-52"

"AMOS"

1949: 18-26 Jun.

8

NODC Files

31-924

Naval Oceanographic Office.

Manuscript data

REHOBOTH

"CRUISE RE-2-53"

"AMOS"

1949: 18-25 Jun.

10

NODC Files

31-925

Naval Oceanographic Office.

Manuscript data

SAN PABLO

"CRUISE SP-3-54"

"AMOS"

1949: 15 Jul.-07 Sep.

45

NODC Files

31-926

Naval Oceanographic Office.

31-926 - Continued

Manuscript data

REHOBOTH

"CRUISE RE-3-55"

"AMOS"

1949: 15 Jul.-07 Sep.

NODC Files

41

31-927

Naval Oceanographic Office.

Manuscript data

SAN PABLO

"CRUISE SP-4-56"

"AMOS"

1949: 20 Oct.-10 Dec.

35

NODC Files

31-928

Naval Oceanographic Office.

Manuscript data

REHOBOTH

"CRUISE RE-4-57"

"AMOS"

1949: 19 Oct.-11 Dec.

31

NODC Files

310930

Coast Guard. "International Ice Observations
and Ice Patrol Service." 1961.

Bulletin no.46

EVERGREEN

"INTERNATIONAL ICE

1960: 02 Apr.-13 Jul.

310930 - Continued

PATROL"

305

NODC Files

310931

Naval Oceanographic Office.

NODC Coding Forms

ROCKVILLE

1962: 08-24 Jan.

7

NODC Files

310932

Naval Oceanographic Office.

Oceanographic Log Sheets

SAN PABLO

1962: 24 Jan.-02 Feb.

17

NODC Files

310933

Naval Oceanographic Office.

NODC Coding Forms

SAN PABLO

1962: 19 Feb.-29 Mar.

"TOTO"

103

NODC Files

310934

Naval Oceanographic Office.

NODC Coding Forms

SHELDRAKE

1962: 10-29 Mar.

310934 - Continued

"TOTO"

95

NODC Files

31-935

Naval Oceanographic Office.

NODC Coding Forms

CHARLES H. DAVIS

1965: 15 Sep.-14 Oct.

70

NODC Files

31-936

Woods Hole Oceanographic Institution.

Punched Cards

CRAWFORD

1965: 23 Apr.-11 Jan.

"CRUISE 125"

119

NODC Files

31-937

Coast and Geodetic Survey.

NODC Coding Forms

SURVEYOR

1966: 12-15 Feb.

"OPR 454"

11

NODC Files

31-938

Coast Guard.

NODC Coding Forms

<u>31-938 - Continued</u>		<u>31-942 - Continued</u>	
NORTHWIND	1965: 04-09 Jul.	SIO Ref. 66-2	
21	NODC Files	HUGH M. SMITH "GULF CAL"	1961: 18 Oct.-10 Nov.
31-939 Coast Guard.		41	NODC Files
NODC Coding Forms		310944	
CHAUTAUQUA "CSK"	1966: 22-27 Jan.	Coast and Geodetic Survey. Oceanographic Log Sheets	
15	NODC Files	EXPLORER (U.S.)	1961: 25 Apr.-18 Oct.
31-940 Coast Guard.		58	NODC Files
NODC Coding Forms		310945	
CHAUTAUQUA "OWS VICTOR"	1966: 04-22 Jan.	Coast and Geodetic Survey. Oceanographic Log Sheets	
10	NODC Files	PIONEER	1951: 15 Apr.-21 Oct.
31-941 Woods Hole Oceanographic Institution. Reduced Data Cards and Punched Cards		45	NODC Files
CRAWFORD "CRUISE 128"	1965: 07-26 Aug.	310946	
63	NODC Files	Naval Oceanographic Office. Oceanographic Log Sheets	
31-942 Scripps Institution of Oceanography. "Data Report." 1966.		REQUISITE "TOTO"	1962: 06-09 May
		10	NODC Files
		310947	
		Naval Oceanographic Office.	

310947 - Continued

NODC Coding Forms			
SAN PABLO	1962: 20 May-23 Jun.		
"TOTO"			
62	NODC Files		
310948			
University of Miami, Marine Laboratory.			
Original Data Sheets			
GERDA	1960: 20 Mar.-31 Oct.		
"CRUISE GE 6006"			
"CRUISE GE 6017"			
"CRUISE GE 6022"			
"TOTO"			
109	NODC Files		
31-949			
Naval Oceanographic Office.			
NODC Coding Forms			
GILLISS	1966: 22 Jan.		
3	NODC Files		
31-950			
Naval Oceanographic Office.			
NODC Coding Forms			
SANDS	1966: 22 Jan.		
3	NODC Files		
31-951			
Naval Oceanographic Office.			
NODC Coding Forms			
EASTWIND	1962: 12-27 Feb.		
"DEEP FREEZE 1962"			
24	NODC Files		
31-953			
Coast and Geodetic Survey.			
NODC Coding Forms			
PEIRCE	1965: 19 Aug.-31 Oct.		
"CRUISE 2"			
"CRUISE 7"			
PIERCE	1966: 05-06 Jan.		
"CRUISE 11"			
66	NODC Files		
31-954			
Naval Oceanographic Office.			
NODC Coding Forms			
REHOBOTH	1965: 28 Nov. to		
REHOBOTH	1966: 09 Feb.		
30	NODC Files		
31-955			
Bureau of Commercial Fisheries, Biological Laboratory, Seattle.			
Punched Cards			

31-955 - Continued

1964: 20 Apr.-17 Nov.

GEORGE B. KELEZ
"CRUISE 464"
"CRUISE 564"
"CRUISE 664"
GEORGE B. KELEZ
"CRUISE 165"

88

NODC Files

31-956

Bureau of Commercial Fisheries, Biological
Laboratory, Seattle.

Punched Cards

GEORGE B. KELEZ
"CRUISE 163"

19

NODC Files

31-957

Bureau of Commercial Fisheries, Biological
Laboratory, Seattle.

Punched Cards

GEORGE B. KELEZ
"CRUISE 663"

74

NODC Files

310958

Woods Hole Oceanographic Institution.

Reduced Data Sheets

ATLANTIS
"CRUISE 263"

1961: 04 Feb.-10 Mar.

310953 - Continued

138

NODC Files

31-959

Bureau of Commercial Fisheries, Biological
Laboratory, Seattle.

Punched Cards

GEORGE B. KELEZ
"CRUISE 263"

1963: 01-17 May

51

NODC Files

31-960

Bureau of Commercial Fisheries, Biological
Laboratory, Seattle.

Punched Cards

GEORGE B. KELEZ
"CRUISE 265"

1965: 02 Oct.-08 Nov.

36

NODC Files

31-961

Environmental Science Services Administration,
Institute for Oceanography, Miami.

NODC Coding Forms

PEIRCE
"CRUISE 12"
"OPR 458"

1966: 11-14 Jan.

31

NODC Files

31-962

Naval Oceanographic Office.

31-962 - Continued

NODC Coding Forms

BERING STRAIT

68

31-963
Coast Guard.

NODC Coding Forms

EVERGREEN
"NORTH ATLANTIC SURVEY"

67

31-964

Scripps Institution of Oceanography. "Data
Report." 1961.

SIO Ref. 61-23

BLACK DOUGLAS
"CCOFI CRUISE 6001
(MLR-128)"

ORCA
"CCOFI CRUISE 6001
(MLR-128)"

HORIZON
"CCOFI CRUISE 6001
(MLR-128)"

259

310965

Naval Oceanographic Office.

NODC Coding Forms

310965 - Continued

ATKA

1962: 09 Aug.-04 Sep.

NODC Files

310966

Naval Oceanographic Office.

NODC Coding Forms

ATKA

1962: 29 Sep.-13 Oct.

NODC Files

310967

Naval Oceanographic Office.

NODC Coding Forms

NORTHWIND

1962: 12-23 Jul.

29

NODC Files

310968

Naval Oceanographic Office.

NODC Coding Forms

NORTHWIND

1962: 05-26 Oct.

129

NODC Files

31C369

Naval Oceanographic Office.

NODC Coding Forms

NORTHWIND

1962: 07-18 Sep.

310969 - Continued

89 NODC Files

310970 Lockheed California Co., Burbank.

Manuscript Data

SEA QUEST 1962: 15 May

2 NODC Files

310971 University of Miami, Marine Laboratory.

Originator's Coding Sheets

GERDA 1962: 10-20 Mar.
"CRUISE GE 6201"

42 NODC Files

310972 Naval Oceanographic Office.

NODC Coding Forms

SAN PABLO 1962: 06 Aug.-16 Sep.

32 NODC Files

310973 Naval Underwater Ordnance Station, Newport,
R.I.

Oceanographic Data Report (Manuscript)

H.C. HAYES 1962: 11-21 Mar.
"NUOS CRUISE 3"

310973 - Continued

"TOTO"

79 NODC Files

310974 Woods Hole Oceanographic Institution.

Reduced Data Sheets

ATLANTIS I 1960: 09 Apr.-06 Jun.
"GULF STREAM
60 PROJECT"

CHAIN 1960: 08 Apr.-14 Jun.
"GULF STREAM
60 PROJECT"

CRAWFORD 1960: 09 Apr.-12 Jun.
"GULF STREAM
60 PROJECT"

336 NODC Files

310975 Coast and Geodetic Survey.

Oceanographic Log Sheets

PIONEER 1960: 07 Oct.-17 Nov.

8 NODC Files

310976 Coast and Geodetic Survey.

Oceanographic Log Sheets

SURVEYOR 1961: 1d May-15 Sep.

17 NODC Files

310977	Naval Oceanographic Office.	31-980	Environmental Science Services Administration, Institute for Oceanography, Miami.
	NODC Coding Forms		NODC Coding Forms
	OWASCO		1962: 03-22 Jun.
	"OWS DELTA I"		1965: 11-14 Nov.
57			PEIRCE "CRUISE 8" "OPR 458"
31-978	Woods Hole Oceanographic Institution. "Oceano- graphic Data Project Ice Skate." 1958.	29	NODC Files
	Ref. 58-28	31-981	Coast Guard.
	ICE SKATE ALPHA		NODC Coding Forms
	"PROJECT ICE SKATE"		1966: 09-11 Mar.
	ICE SKATE ALPHA		1966: 09-11 Mar.
	"PROJECT ICE SKATE"		NODC Files
	ICE SKATE BRAVO		
	"PROJECT ICE SKATE"		
	ICE SKATE BRAVO		
	"PROJECT ICE SKATE"		
17		31-982	Naval Oceanographic Office.
			NODC Coding Forms
310979	Naval Oceanographic Office.		REHOBOTH "KAUAI"
	NODC Coding Forms		1964: B-18 Oct.
	CHINCOTEAGUE		NODC Files
	"OWS DELTA III"		
68			
			Magnetic Tape
			BROWN BEAR
			"CRUISE 88-202"
			1958: 21 Sep.-02 Oct.
		31-983	University of Washington, Dept. of Oceanography.

31-983 - Continued			
BROWN BEAR	1959: 18 Jun.-31 Jul.	31-988	Naval Oceanographic Office.
"CRUISE BB-234"			
"CRUISE BB-235"			
88	NODC Files		NODC Coding Forms
			1966: 22 Mar.-14 Apr.
31-984		15	NODC Files
Texas A&M University, Dept. of Oceanography.			
NODC Coding Forms		31-989	Environmental Science Services Administration, Institute for Oceanography, Miami.
ALAMINOS	1963: 07-08 Dec.		
"CRUISE 63-A-3"			
ALAMINGOS	1964: 17 Jan.-02 Mar.		NODC Coding Forms
"CRUISE 64-A-2"			
"CRUISE 64-A-3"			PEIRCE
37	NODC Files		"OPR 458"
			"CRUISE 14"
31-986		31	NODC Files
Naval Oceanographic Office.			
NODC Coding Forms		31-990	Coast and Geodetic Survey.
ATKA	1966: 21-27 Feb.		NODC Coding Forms
28	NODC Files		EXPLORER (U.S.)
			"CRUISE 439"
31-987			"EQUALANT I"
Coast Guard.		125	NODC Files
NODC Coding Forms			
EASTWIND	1966: 22-26 Mar.	31-992	Woods Hole Oceanographic Institution.
"Equatorial Atlantic"			Reduced Data Sheets
19	NODC Files		CHAIN
			1963: 01 Mar.-26 Apr.

31-992 - Continued

"CRUISE 35"
"EQUALANT I"

6

NODC Files

31-993

Woods Hole Oceanographic Institution.

Reduced Data Sheets

CRAWFORD
"CRUISE 91"
"EQUALANT I"

173

NODC Files

31-994

Coast Guard.

NODC Coding Forms

CASCO
"EQUALANT II"

59

WDC-A Files 139.16 A-1

31-995

Bureau of Commercial Fisheries, Miami.

NODC Coding Forms

GERONIMO
"EQUALANT II"

73

WDC-A 139.10 T-1

31-996

University of Miami, Marine Laboratory.

31-996 - Continued

Printed Tabular Data

JOHN E. PILLSBURY
"CRUISE P-6362"
"EQUALANT II"

1963: 16 Aug.-11 Oct.

75

NODC Files

31-997

Bureau of Commercial Fisheries, Miami.

NODC Coding Forms

GERONIMO
"CRUISE 3"
"EQUALANT III"

1964: 17 Jan.-11 May

119

NODC Files

31-998

University of Miami, Marine Laboratory.

NODC Coding Forms

JOHN E. PILLSBURY
"CRUISE P-6403"
"EQUALANT III"

1964: 09 Mar.-21 Apr.

101

WDC-A Files 139.14 E-3

31-999

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1962.

Annee 1956 (Woods Hole Oceanographic Institution Cruise)

31-999 - Continued

CRAWFORD ATLANTIS I CARLIN BEAR	1956: 29 Jul.-03 Dec. 1956: 09 Sep.-12 Dec. 1956: 05-06 Jul. 1956: 02 Jan.-10 Feb.	311054 University of Washington, Dept. of Oceanography. Magnetic Tape
185	NODC Files	THOMAS G. THOMPSON "CRUISE 1" 1965: 14 Oct.-11 Dec.
311051 University of Washington, Dept. of Oceanography.		73 NODC Files
Magnetic Tape		311055 University of Washington, Dept. of Oceanography.
BROWN BEAR "CRUISE 88-254"	1960: 17-23 Mar.	Magnetic Tape
8	NODC Files	THOMAS G. THOMPSON "CRUISE 2" 1966: 03-10 Aug.
311052 University of Washington, Dept. of Oceanography.		39 NODC Files
Magnetic Tape		311056 University of Washington, Dept. of Oceanography.
BROWN BEAR "CRUISE 88-265"	1960: 10-20 Jun.	Magnetic Tape
68	NODC Files	THOMAS G. THOMPSON "CRUISE 5" 1966: 27 Nov.-01 Dec.
311053 University of Washington, Dept. of Oceanography.		29 NODC Files
Magnetic Tape		311057 University of Washington, Dept. of Oceanography.
BROWN BEAR "CRUISE 88-269"	1960: 30 Aug.-11 Sep.	Magnetic Tape
38	NODC Files	OCEANEER "CRUISE 1" 1966: 15-20 Jun.

311057 - Continued

49 NODC Files

311058 University of Washington, Dept. of Oceanography.

Magnetic Tape

OCEANEER
"CRUISE 6"

68 NODC Files

311059 Coast Guard.

NODC Coding Forms

ROCKAWAY
"WESTROLANT 66"

57 NODC Files

311060 Naval Oceanographic Office.

NODC Coding Forms

SANDS

8 NODC Files

311061 Coast Guard.

NODC Coding Forms

ROCKAWAY
"ATLANTIC STANDARD

1966: 15-22 Aug.

1967: 21 May-06 Jun.

1966: 19-22 Nov.

311061 - Continued

SECTION 6"
"CRUISE A-62"

15 NODC Files

311063 Coast Guard.

NODC Coding Forms

SPENCER
"GWS BRAVO"
"CRUISE B-25"

9 NODC Files

311064 Coast Guard.

NODC Coding Forms

KLAMATH
"PACIFIC STANDARD
SECTION 4"
"CRUISE P-43"

18 NODC Files

311065 Coast Guard.

NODC Coding Forms

MINNETONKA
"OWS VICTOR"
"CRUISE V-12"
"CRUISE V-13"

1967: 21 Mar.-19 May

1967: 09-13 Apr.

311065 - Continued

23 NODC Files

311066 Coast and Geodetic Survey, Seattle.

NODC Coding Forms

MCARTHUR
"CRUISE 394"
1967: 14-22 Jun.

8

311067 Coast Guard.

NODC Coding Forms

ROCKAWAY
10
1967: 10-14 Jul.
NODC Files

311068

Texas A&M University, Dept. of Oceanography.
"Cruise Report." 1966.

Special Report no.1

1965: 05 Oct.-05 Nov.

ANTON BRUUN
"CRUISE 11"

26 NODC Files

311069

Texas A&M University, Dept. of Oceanography.
"Cruise Report." 1966.

Special Report no.2

311069 - Continued

ANTON BRUUN
"CRUISE 12"

1965: 21 Nov.-19 Dec.

10

NODC Files

311070

Texas A&M University, Dept. of Oceanography.
"Cruise Report." 1966.

Special Report no.3

ANTON BRUUN
"CRUISE 13"

1966: 05 Jan.-03 Feb.

18

NODC Files

311071

Texas A&M University, Dept. of Oceanography.
"Cruise Report." 1966.

Special Report no.4

ANTON BRUUN
"CRUISE 14"

1966: 15 Feb.-15 Mar.

23

NODC Files

311072

Texas A&M University, Dept. of Oceanography.
"Cruise Report." 1966.

Special Report no.5

ANTON BRUUN
"CRUISE 15"

1966: 30 Mar.-26 Apr.

45

NODC Files

311079 - Continued		
311073	Texas A&M University, Dept. of Oceanography. "Cruise Report." 1966.	1967: 20 Mar.-08 Apr.
	Special Report no.6	
ANTON BRIJUN	"CRUISE 16"	NODC Files
14		
311074	Texas A&M University, Dept. of Oceanography. "Cruise Report." 1967.	1967: 02-19, 21-26 May
	Special Report no.7	
ANTON BRIJUN	"CRUISE 17"	NODC Files
27		
311075	Texas A&M University, Dept. of Oceanography. "Cruise Report." 1967.	1967: 25 May-14 Jun.
	Special Report no.8	
ANTON BRIJUN	"CRUISE 18A" "CRUISE 188"	NODC Files
78		
311079	Coast Guard.	1967: 26 May-17 Jun.
	NODC Coding Forms	
	OWASCO "OWS DELTA" "CRUISE D-08"	
	KLAWATH "OWS NOVEMBER" "CRUISE N-05"	
	17	
	311080 Coast Guard.	
	NODC Coding Forms	
	PONTCHARTRAIN "OWS NOVEMBER" "PACIFIC STANDARD SECTION 6"	
	28	
	311081 Coast Guard.	
	NODC Coding Forms	
	CASTLE ROCK "OWS CHARLIE" "CRUISE C-12"	
	21	
	311082 Coast Guard.	
	NODC Coding Forms	

311062 - Continued

20	NODC Files	311088	Naval Oceanographic Office.
311083	Coast Guard.	NODC Coding Forms	
NODC Coding Forms		CHARLES H. DAVIS	1967: 27 Jun.-15 Jul.
WINONA		"CRUISE 10"	
"OMS NOVEMBER"	1967: 15 Jun.-06 Jul.	"CRUISE 11"	
"CRUISE N-07"		"CRUISE 12"	
"PACIFIC STANDARD SECTION 4"		12	NODC Files
41	NODC Files	311089	Coast Guard.
311086	Naval Oceanographic Office.	NODC Coding Forms	
NODC Coding Forms		NORTHWIND	1967: 12-23 Jul.
SILAS BENT		"CHUKCHI"	
"CRUISE 26-67-07"		83	NODC Files
5	NODC Files	311090	Woods Hole Oceanographic Institution.
311087	Coast Guard.	Reduced Data Cards	
NODC Coding Forms		ATLANTIS II	1965: 10-18 Dec.
ANDROSCOGGIN		"CRUISE 17"	
"OMS ECHO"	1967: 01-20 & 26-28 Jun.	5	NODC Files
"CRUISE E-04"		311091	Coast Guard.
"ATLANTIC STANDARD SECTION 7"		NODC Coding Forms	
"CRUISE A-72"		SPENCER	1967: 12-31 Jul.
27	NODC Files		

311091 - Continued
"OWS DELTA"

18

NODC Files

311092
Coast Guard.

NODC Coding Forms

SEBAGO
"OWS BRAVO"

1967: 29 Jun.-21 Jul.

22

NODC Files

311097
Coast and Geodetic Survey, Seattle.

Magnetic Tape

ICE ISLAND T-3

"WO-1"

"WO-2"

"WO-2"

"WO-3"

"WO-4"

"WO-5"

ICE ISLAND T-3"

"WO-6"

198

NODC Files

311098
University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR

1965: 04-11 Nov.

311098 - Continued
"CRUISE BB-380"

14

NODC Files

311099
University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-371"

1965: 16-24 Sep.

68

NODC Files

311100
University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-368"

1965: 6-21 Aug.

42

NODC Files

311101
University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-365"
"CRUISE BB-367"

1965: 12 Jun.-7 Jul.

73

NODC Files

311102
University of Washington, Dept. of Oceanography.

311102 - Continued

Punched Cards

BROWN BEAR
"CRUISE 88-356"
"CRUISE 88-357"

45

NODC Files

1965: 10-27 Apr.

311103

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE 88-354"
"CRUISE 88-355"

112

NODC Files

1965: 21 Mar.-06 Apr.

311104

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE 88-352"
"CRUISE 88-353"

113

NODC Files

1965: 11 Jan.-18 Feb.

311105

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE 88-351"

1964: 17-27 Sep.

311105 - Continued

142

NODC Files

311106

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE 88-349"

1964: 8-27 Aug.

32

NODC Files

311107

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE 88-347"

1964: 22-30 Jun.

98

NODC Files

311108

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE 88-345"
"CRUISE 88-346"

1964: 7-20 Jun.

84

NODC Files

311109

University of Washington, Dept. of Oceanography.

Punched Cards

311109 - Continued

BROWN BEAR
"CRUISE BB-344"

1964: 18 May-5 Jun.

37

NODC Files

311110

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-341"

1964: 12-26 Feb.

54

NODC Files

311111

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-339"

1963: 4-11 Dec.

67

NODC Files

311112

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-335"

1963: 21 Sep.-25 Oct.

225

NODC Files

311113

University of Washington, Dept. of Oceanography.

311113 - Continued

Punched Cards

BROWN BEAR
"CRUISE BB-331"
"CRUISE BB-332"
"CRUISE BB-333"

1963: 14 Aug.-11 Sep.

114

NODC Files

311114

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-327"
"CRUISE BB-329"

1963: 25 Jun.-17 Jul.

45

NODC Files

311115

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-326"

1963: 13-23 Jun.

63

NODC Files

311116

University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-324"

1963: 22 May-04 Jun.

311116 - Continued

140 NODC Files

311117 University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-322"
"CRUISE BB-323"

124 NODC Files

311118 University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-320"

39 NODC Files

311119 University of Washington, Dept. of Oceanography.

Punched Cards

BROWN BEAR
"CRUISE BB-318"

106 NODC Files

311121 University of Washington, Dept. of Oceanography.

Punched Cards

311121 - Continued

HOH 1963: 09 Aug.
"CRUISE 73"

11 NODC Files

311122 Naval Oceanographic Office.

NODC Coding Forms

GILLISS
"CRUISE 04-67-11" 1967: 02-13 Jul.

36 NODC Files

311123 Bureau of Commercial Fisheries, Miami.

Punched Cards & Listing ICES Format

GERONIMO
"CRUISE 8" 1966: 02 Jun.-06 Jun.

31 NODC Files

311136 Naval Oceanographic Office.

NODC Coding Forms

LYNCH
"CRUISE 07-67-15" 1967: 28 Aug.-07 Sep.

10 NODC Files

311137 Naval Oceanographic Office.

311137 - Continued

NODC Coding Forms
 SANDS
 "CRUISE 06-67-11"
 16
 311138
 Coast Guard.
 NODC Coding Forms
 MENDOTA
 "OWS CHARLIE"
 27
 311139
 Coast Guard.
 NODC Coding Forms
 WINNEBAGO
 "OWS VICTOR"
 21
 311140
 Coast Guard.
 NODC Coding Forms
 ABSECON
 "OWS ECHO"
 20

1967: 19 Sep.-08 Oct.
 NODC Files
 16
 NODC Files
 1967: 09 Jul.-03 Aug.
 NODC Files
 1967: 02-21 Jul.
 NODC Files
 1967: 17 Jul.-06 Aug.
 NODC Files
 311141
 Bureau of Commercial Fisheries, Miami.
 Punched Cards
 UNDAUNTED
 "CRUISE 4"
 25
 NODC Files
 1966: 02-06 Jun.
 NODC Files
 311142
 Coast Guard.
 NODC Coding Forms
 PONTCHARTRAIN
 "OWS NOVEMBER"
 "CRUISE N-09"
 21
 NODC Files
 1967: 23 Jul.-12 Aug.
 NODC Files
 311143
 Coast Guard.
 NODC Coding Forms
 CHINCOTEAGUE
 "OWS CHARLIE"
 "CRUISE C-14"
 21
 NODC Files
 1967: 02-24 Aug.
 NODC Files
 311144
 Naval Oceanographic Office.
 NODC Coding Forms
 LYNCH
 1967: 02-17 Apr.

311144 - Continued
"AGDE-1"

12

NODC Files

311145

Naval Oceanographic Office.

NODC Coding Forms

SAN PAOLO
"AGDE-1"

1967: 12 Aug.-01 Sep.

24

NODC Files

311157

Coast Guard.

NODC Coding Forms

HCCU' LOUGH
"OWS BRAVO"
"CRUISE B-27"

1967: 14 Aug.-08 Sep.

31

NODC Files

311158

Coast Guard.

NODC Coding Forms

INGHAM
"OWS DELTA"
"CRUISE D-10"

1967: 27 Aug.-16 Sep.

18

NODC Files

311159

Coast Guard.

311159 - Continued
NODC Coding Forms

BIBB
"OWS CHARLIE"

1967: 26 Aug.-16 Sep.

21

NODC Files

311160

Naval Oceanographic Office.

NODC Coding Forms

SILAS BENT
"CRUISE 26-67-08"

1967: 17-23 Oct.

3

NODC Files

311161

Naval Oceanographic Office.

NODC Coding Forms

EDISTO
"CRUISE 98-80-19"

1967: 25 Sep.-14 Oct.

52

NODC Files

311162

Texas A&M University, Dept. of Oceanography.

NODC Coding Forms

ALAMINOS
"EQUACHEQUE"

1964: 24 Jul.-10 Sep.

122

NODC Files

205

318014 - Continued

Punched Cards

TERITU 1966: Oct.

"CRUISE 15"

11 NODC Files

318015 Woods Hole Oceanographic Institution.

Punched Cards

ATLANTIS II 1966: Dec.

16 NODC Files

318016 Coast Guard.

NODC Coding Forms

EVERGREEN

1967: 08 May-11 Jun.

107

NODC Files

318017 Coast Guard.

NODC Coding Forms

EVERGREEN
"INTERNATIONAL ICE
PATROL"

1967: 25-28 Jul.

24

NODC Files

318022

Environmental Science Services Administration,

318022 - Continued

Institute for Oceanography, Seattle.

NODC Coding Forms

OCEANOGRAPHER
"OPR 476"

1967: 20-23 Sep.

20

NODC files

318023

Coast Guard.

NODC Coding Forms

EVERGREEN
"ICNAF 672"

1967: 18-29 Sep.

57

NODC Files

34-001

Havsforskningsinstitutet.
Data." 1958.

"Hydrographical

Skrift, no.186

ARANDA

1957: 03-19 Jun.

32

NODC Files

34-002

Havsforskningsinstitutet.
Salinity at fixed Finnish Stations." 1959.

Skrift, no.192

FIXED STATIONS

1954: Jan.-Dec.

FIXED STATIONS

1955: Jan.-Dec.

FIXED STATIONS

1956: Jan.-Dec.

34-002 - Continued		
1852	NODC Files	340028
34-003		International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.
Havsforskningsinstituttet.		
Punched Cards ICES Format		Annees 1935 to 1936 (2 v.)
ARANDA	1958: 10 Jun.-30 Aug.	NAUTILUS (Finl.) 1935: Jul.
23	NODC Files	NAUTILUS (Finl.) 1936: Sep.-Oct.
340026		133 NODC Files
International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1928-32.		34-032
Annees 1927 to 1931 (5 v.)		Finska Vetenskaps Societeten. "Hydrographic Investigations." 1907.
NAUTILUS (Finl.) 1927: Jul.		Finnlaendische Hydrographisch-Biologische Untersuchungen, nos.1-4
NAUTILUS (Finl.) 1928: Jul.		UNKNOWN 1898: to
NAUTILUS (Finl.) 1929: Jul.		UNKNOWN 1899: to
NAUTILUS (Finl.) 1930: Jul.-Aug.		UNKNOWN 1900: to
NAUTILUS (Finl.) 1931: Jul.-Aug.		UNKNOWN 1901: to
390	NODC Files	UNKNOWN 1902: to
		AHKERA 1898: 06 Dec.
		ELAKOON 1898: 08 Oct.
		ELAKOON 1901: 08-12 Jul.
		FALKEN 1901: 08-14 Sep.
		JUPITER 1899: 28-31 Aug.
		MURTAJA 1899: 03 Jun.
		MURTAJA 1900: 01-04 Jun.
		MURTAJA 1901: 25-31 May
		MURTAJA 1902: 08-11 Jun.
		NORDVAKTEN 1898: 21 Dec.
		NORDVAKTEN 1899: 02 May-29 Sep.
		NORDVAKTEN 1900: 22-25 Jul.
		SAMPO 1899: 18-30 Apr.
		SAMPO 1901: 23 Feb.
340027		
International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1933-1935.		
Annees 1932 to 1934 (3 v.)		
NAUTILUS (Finl.) 1932: Jul.		
NAUTILUS (Finl.) 1933: Jul.		
NAUTILUS (Finl.) 1934: Jul.		
214	NODC Files	

34-032 - Continued

SAMPO
SATURNUS
SATURNUS
SODER
TRALL
TRALL
VALVOJA
VALVOJA
VALVOJA
VALVOJA
VALVOJA
VESTA
VIKINGEN
VIKINGEN
VIKINGEN

393

DNO GB651 Fin 1-4

34-154

Havsforskningsinstitutet. "Regelbundna iakttagelser av Havets Temperatur och Salthalt." 1921.

Skrift, no. 5

ARANGSRUND LV
BENGTSKAR LV
BOGSKAR LV
HANKO LV
HANKO LV
HANKO LV
HANKO LV
HANKO LV
HANKO LV
HARMAJA LV
HARMAJA LV
HARMAJA LV
HARMAJA LV
HARMAJA LV

1914:	Jan.-Jul.
1914:	Jan.-Jul.
1914:	Jan.-Jul.
1914:	to
1915:	to
1916:	to
1917:	to
1918:	
1914:	to
1915:	to
1916:	to
1917:	to
1918:	to

34-154 - Continued

HELSINGKALLAN
MARKET LV
NAHKIANEN LV
PLEVNA LV
RELANDERIN LV
SAPPI LV
SNIPAN LV
SODERSKAR LV
SODERSKAR LV
SODERSKAR LV
SODERSKAR LV
SODERSKAR LV
STORBROTEN LV
STORKALLEGRUND LV
TAIPALEENLUOTO
TAIPALEENLUOTO
TAIPALEENLUOTO
ULKOKALLA LV
ULKOKALLA LV
ULKOKALLA LV
UTO LV
UTO LV
UTO LV
UTO LV
VERKKOMATALA LV
VERKKOMATALA LV
VERKKOMATALA LV

108

NODC Files

34-155

Havsforskningsinstitutet. "Tallassologiska Expeditioner i Haven kring Finland." 1921.

Skrift, no. 6

NAUTILUS (Finl.)

1919: 13 Jun.-27 Jul.

34-155 - Continued

38

NODC Files

34-156

Havsforskningsinstitutet. "Zur Kenntnis der Temperatur und des Salzgehaltes des Baltischen Meeres an den Kusten Finnlands." 1938.

Skrift, no.122

HARMAJA LV
ARANSGRUND LV

1914: Jul.
1914: Jul.

95

DNO GC3 F5 no.122

34-157

Havsforskningsinstitutet. "Talassologiska Expeditioner i Haven kring Finland." 1922.

Skrift, no.9

NAUTILUS (Finl.)

1920: 26 May-01 Dec.

63

NODC Files

34-158

Havsforskningsinstitutet. "Talassologiska Expeditioner i Haven kring Finland." 1922.

Skrift, no.12

NAUTILUS (Finl.)

1921: 22 Feb.-12 Nov.

52

NODC Files

34-159

Havsforskningsinstitutet. "Regelbundna Iakttagelser av Havets Temperatur och Salthalt." 1923.

34-159 - Continued

Skrift, no.16

AJAXBANK

AJAXBANK

ARANSGRUND LV

ARANSGRUND LV

BENGTSKAR LV

HAAPASAARI LV

HAFMAJA LV

HARMAJA LV

HELSINGKALLAN

HELSINGKALLAN

ISOKARI LV

ISOKARI LV

JARSO LV

JUNGFRUSKAR LV

JUSSARO LV

JUSSARO LV

LOHM LV

MARJANIEMI LV

MARKET LV

MARKET LV

MARTINSAARI LV

NAHKIANEN LV

NAHKIANEN LV

NORRSKAR LV

NORRSKAR LV

OLEGSGRUND LV

PLEVNA LV

PORKALA LV

PORKALA LV

RELANDERIN LV

RELANDERIN LV

RUSSARO LV

RUSSARO LV

SALGRUND LV

SALGRUND LV

SAPPI LV

1919: Jun. to
1920: Sep.
1919: Jan. to
1919: Dec.
1920: Jul.-Dec.
1920: Aug.-Dec.
1919: Jan. to
1920: Dec.
1919: Jun. to
1920: Nov.
1919: Jul. to
1920: Dec.
1920: Jul.-Dec.
1920: Jul.-Dec.
1919: Jun. to
1920: Sep.
1920: Jan.-Dec.
1920: Jun.-Dec.
1919: Jun. to
1920: Dec.
1920: Jul.-Dec.
1919: Jul. to
1920: Nov.
1919: Jun. to
1920: Dec.
1920: Oct.-Dec.
1920: Jun.-Oct.
1919: Jan. to
1920: Jul.
1919: Aug. to
1920: Dec.
1919: Jan. to
1920: Dec.
1919: Jan. to
1920: Dec.
1920: May

34-159 - Continued

SAPPI LV	1920: Jun.
SEIVASTO LV	1920: Jun.-Dec.
SNIPAN LV	1919: Jan. to
SNIPAN LV	1920: Dec.
SODERSKAR LV	1919: Jan. to
SODERSKAR LV	1920: Dec.
SOMERI LV	1920: May-Dec.
SUURSAARI	1919: Jan. to
SUURSAARI	1920: Dec.
TAMMIO LV	1920: Aug.-Dec.
TANKER LV	1919: Jun. to
TANKER LV	1920: Dec.
TUPPURA LV	1920: Aug.-Dec.
ULKOKALLA LV	1919: Mar. to
ULKOKALLA LV	1920: Dec.
UTO LV	1919: Jun. to
UTO LV	1920: Dec.
VALSORARNA LV	1919: Jul. to
VALSORARNA LV	1920: Aug.
1045	DNO GC3 F5 no.16

34-160

Havsforskningsinstitutet. "Regelbundna lakttagelser av Havets Temperatur och Salthalt." 1923.

Skrift, no.20

ARANSGRUND LV	1921: Jan.-Dec.
BEKTSKAR LV	1921: May-Dec.
HAAPASAARI LV	1921: May-Dec.
HARMAJA LV	1921: Jan.-Oct.
HELSINGKALLAN	1921: Jun.-Nov.
ISOKARI LV	1921: Apr.-Aug.
JARSO LV	1921: Jan.-Oct.
JUNGFRUSKAR LV	1921: Jun.-Dec.
JUSSARO LV	1921: May-Oct.

34-160 - Continued

KALBADAGRUND LV	1920: Jun.
LAGSKAR LV	1920: May-Dec.
LOHM LV	1921: Jan.-Dec.
MARJANIEMI LV	1921: Feb.-Oct.
MARKET LV	1921: Jan.-Dec.
MARTINSAARI LV	1921: Mar.-Dec.
NAHKIANEN LV	1921: Jun.-Nov.
NORRSKAR LV	1921: Jan.-Dec.
OLEGSGRUND LV	1921: Jan.-Sep.
PLEVNA LV	1921: Jun.-Oct.
PORKALA LV	1921: Jan.-Dec.
RELANDERIN LV	1921: Jun.-Dec.
RUSSARO LV	1921: May-Dec.
SALGRUND LV	1921: Apr.-Nov.
SAPPI LV	1921: Jan.-Dec.
SEIVASTO LV	1921: Feb.-Nov.
SNIPAN LV	1921: Jul.-Nov.
SODERSKAR LV	1921: Feb.-Oct.
SOMERI LV	1921: Jun.-Dec.
STORBROTTEN LV	1921: Sep.-Dec.
STORKALLEGRUND LV	1921: May-Nov.
SUURSAARI	1921: Feb.-Dec.
TAMMIO LV	1921: Jan.-Dec.
TANKER LV	1921: Jan.-Nov.
TUPPURA LV	1921: Mar.-Jun.
ULKOKALLA LV	1921: Jan.-Dec.
UTO LV	1921: Jan.-Dec.
VALSORARNA LV	1921: Jun.-Sep.
VERKKOMATALA LV	1921: Jun.-Nov.
802	DNO GC3 F4 no.20

34-161

Havsforskningsinstitutet. "Talassologiska Var- expeditionen." 1922.

Skrift, no.21

34-161 - Continued

NAUTILUS (Finl.)

51

1922: 26 May-08 Jun.

DNO GC3 F5 no.21

34-162

Havsforskningsinstitutet. "Regelbundna iakttagelser av Havets Temperatur och Salthalt." 1924.

Skrift, no.26

ARANSGRUND LV
BENGTSSKAR LV
HAAPASAARI LV
HARMAIA IV
HELSINGKALLAN
ISOKARI LV
JUNGFUSKAR LV
JUSSARO LV
KALBADAGRUND LV
LAGSKAR LV
LOMM LV
MARJANIEMI LV
MARKET LV
MARTINSAARI LV
MAHKIANEN LV
NORRSKAR LV
PLEVRA LV
PORKALA LV
RELANDERIN LV
RUSSARO LV
SALGRUND LV
SAPPI LV
SETIVASTO LV
SNIPAN LV
SODERSKAR LV
SOMERI LV
STORBRÖTTEN LV

1922: Jan.-Dec.
1922: Jan.-Dec.
1922: May-Dec.
1922: Jun.-Dec.
1922: Jun.-Nov.
1922: May-Oct.
1922: Jan.-Dec.
1922: May-Dec.
1922: May-Dec.
1922: Jan.-Dec.
1922: Jan.-Dec.
1922: Mar.-Oct.
1922: Mar.-Dec.
1922: Jan.-Dec.
1922: Jun.-Nov.
1922: Jan.-Dec.
1922: Jun.-Oct.
1922: Jan.-Dec.
1922: Jun.-Dec.
1922: Jan.-Dec.
1922: May-Dec.
1922: Apr.-Dec.
1922: Jan.-Nov.
1922: Jun.-Nov.
1922: Feb.-Nov.
1922: May-Dec.
1922: Jul.

34-162 - Continued

SUURSAARI
TAMMIO LV
TANKER LV
TUPPURA LV
ULKOKALLA LV
UTO LV
VALSORARNA LV
VERKKOMATALA LV

1922: Jan.-Dec.
1922: Jan.-Dec.
1922: Jan.-Dec.
1922: Jun.-Aug.
1922: Jan.-Dec.
1922: Jan.-Dec.
1922: Jan.-Oct.
1922: Jun.-Nov.

DNO GC3 F5 no.26

34-163

Havsforskningsinstitutet. "Talassologiska Var-
expeditionen." 1924.

Skrift, no.27

NAUTILUS (Finl.)

1923: 31 May-17 Jun.

66

DNO GC3 F5 no.27

34-164

Havsforskningsinstitutet. "Thalassologiske
Beobachtungen in Alands- und Scharenmeer." 1925.

Skrift, no.30

NAUTILUS (Finl.)
NAUTILUS (Finl.)

1922: 17-29 Jul.
1923: 19-23 Jul.
1922: 27-29 Jul.
1922: 22-23 Jul.
1922: Jan.-Aug.
1922: 17-30 Jul.

170

DNO GC3 F5 no.30

34-166 - Continued

34-165
Havsforskningsinstitutet. "Thalassologiska Var-
expeditionen." 1925.
Skrift, no.32
NAUTILUS (Finl.) 1924: 04-28 Jun.
68 DNO GC3 F4 no.32
34-166
Havsforskningsinstitutet. "Regelmässige
Beobachtungen von Temperatur und Salzgehalt
des Meeres." 1925.

Skrift, no.34

ARANSGRUND LV 1923: Jan.-Dec.
BENGTSKAR LV 1923: Jan.-Dec.
HAAPASAARI LV 1923: Mar.-Dec.
HARMAJA LV 1923: Jan.-Dec.
HELSINGKALLAN 1923: Jul.-Nov.
ISOKARI LV 1923: Apr.-Dec.
JUNGFRUSKAR LV 1923: Jan.-Dec.
JUSSARO LV 1923: Feb.-Dec.
KALBADAGRUND LV 1923: Jun.-Oct.
LAGSKAR LV 1923: Jan.-Dec.
LOHM LV 1923: Jan.-Dec.
MARJANIEMI LV 1923: Mar.-Dec.
MARKET LV 1923: Jan.-Dec.
MARTINSAARI LV 1923: Jan.-Dec.
NAHKIANEN LV 1923: Jun.-Nov.
NORSKAR LV 1923: Jan.-Dec.
PLEVNA LV 1923: Jun.-Oct.
PORKALA LV 1923: Jan.-Dec.
RELANDERIN LV 1923: May-Dec.
RUSSARO LV 1923: Jan.-Dec.
SALGRUND LV 1923: May-Dec.

SAPPI LV 1923: Mar.-Dec.
SEIVASTO LV 1923: Feb.-Nov.
SNIPAN LV 1923: Jun.-Nov.
SODERSKAR LV 1923: Mar.-Dec.
SOMERI LV 1923: Jun.-Dec.
STORBROTTEN LV 1923: Jul.-Dec.
SUURSAARI 1923: Jan.-Dec.
TAIPALEENLUOTO 1923: Jun.-Nov.
TANKER LV 1923: Jan.-Dec.
ULKOKALLA LV 1923: Jan.-Dec.
UTO LV 1923: Jan.-Dec.
VALSORARNA LV 1923: Jul.-Dec.
868 DNO GC3 F5 no.34

34-167

Havsforskningsinstitutet. "Regelmässige Beobach-
tungen von Temperatur und Salzgehalt des Meeres."
1926.

Skrift, no.38

ARANSGRUND LV 1924: Jan.-Dec.
BENGTSKAR LV 1924: Jan.-Dec.
HAAPASAARI LV 1924: Jan.-Dec.
HARMAJA LV 1924: Jan.-Dec.
HELSINGKALLAN 1924: Jun.-Dec.
HOCKLAND LV 1924: Feb.-Dec.
ISOKARI LV 1924: May-Dec.
JUNGFRUSKAR LV 1924: Jan.-Dec.
KALBADAGRUND LV 1924: Jan.-Dec.
KALLBADAN LV 1924: Jan.-Dec.
LAGSKAR LV 1924: Jan.-Dec.
LOHM LV 1924: Jan.-Dec.
MARJANIEMI LV 1924: Apr.-Nov.
MARKET LV 1924: Jan.-Dec.
MARTINSAARI LV 1924: Jan.-Dec.
NAHKIANEN LV 1924: Jun.-Nov.

34-167 - Continued

MORRSKAR LV 1924: May-Oct.
 PLEVNA LV 1924: Jun.-Oct.
 RELANDERIN LV 1924: Jan.-Dec.
 RUSSARO LV 1924: Feb.-Dec.
 SALGRUND LV 1924: May-Dec.
 SAPPI LV 1924: Mar.-Dec.
 SEIVASTO LV 1924: Feb.-Dec.
 SNIPAN LV 1924: Jun.-Dec.
 SODERSKAR LV 1924: Mar.-Nov.
 SOMERI LV 1924: Feb.-Dec.
 STORBRÖTTEN LV 1924: Jan.-Dec.
 TAIPALEENLUOTO 1924: Jun.-Nov.
 TAMMIO LV 1924: Jan.-Dec.
 TANKER LV 1924: Jan.-Dec.
 ULKOKALLA LV 1924: Jan.-Dec.
 UTO LV 1924: Jan.-Dec.
 VALSORARNA LV 1924: May-Dec.
 VERKKOMATLA LV 1924: Jun.-Dec.
 842 DNO GC3 F5 no.38

34-168

Havsforskningsinstitutet. "Regelmässige
 Beobachtungen von Temperatur und Salzgehalt
 des Meeres." 1927.

Skrift, no.45

ARANSGRUND LV 1925: Jan.-Dec.
 BENGTSKAR LV 1925: Jan.-Dec.
 HAAPASAARI LV 1925: Jan.-Dec.
 HARMAJA LV 1925: Jan.-Nov.
 HELSINGKALLAN 1925: May-Nov.
 HÖCKLAND LV 1925: Jan.-Sep.
 ISOKARI LV 1925: Jan.-Nov.
 JUNGFRUSKAR LV 1925: Jan.-Dec.
 KALBADAGRUND LV 1925: Jan.-Dec.
 KALLBADAN LV 1925: Jan.-Dec.

34-168 - Continued

LAGSKAR LV 1925: Jan.-Dec.
 LOHM LV 1925: Jan.-Dec.
 MARJANIEMI LV 1925: Jan.-Oct.
 MARKET LV 1925: Jan.-Nov.
 MARTINSAARI LV 1925: Jan.-Dec.
 NAHKIANEN LV 1925: Jun.-Nov.
 NOVISKAR LV 1925: Apr.-Sep.
 PLEVNA LV 1925: Jun.-Oct.
 RELANDERIN LV 1925: Jan.-Nov.
 RUSSARO LV 1925: Jan.-Dec.
 SALGRUND LV 1925: May-Dec.
 SAPPI LV 1925: Jan.-Nov.
 SEIVASTO LV 1925: Apr.-Nov.
 SNIPAN LV 1925: May-Nov.
 SODERSKAR LV 1925: Jan.-Nov.
 SOMERI LV 1925: Jan.-Oct.
 STORBRÖTTEN LV 1925: Jan.-Dec.
 TAIPALEENLUOTO 1925: May-Nov.
 TAMMIO LV 1925: Jan.-Dec.
 TANKER LV 1925: Jan.-Dec.
 ULKOKALLA LV 1925: Jan.-Dec.
 UTO LV 1925: Jan.-Dec.
 VALSORARNA LV 1925: Jan.-Dec.
 VERKKOMATLA LV 1925: May-Nov.
 905 DNO GC3 F5 no.45

34-169

Havsforskningsinstitutet.
 Terminfahrt." 1927.

Skrift, no.46

NAUTILUS (Finl.)

71

1926: 09-12 Aug.

DNO GC3 F5 no.46

34-170 - Continued

34-170

Havsforskningsinstitutet. "Regelmässige Beobachtungen von Temperatur und Salzgehalt des Meeres." 1928.

Skrift, no.51

ARANSGRUND LV	1926: Jan.-Dec.
BENGTSKAR LV	1926: Jan.-Dec.
HAAPASAARI LV	1926: Jan.-Dec.
HARMAJA LV	1926: Jan.-Dec.
HELSINGKALLAN	1926: Jun.-Nov.
HOCKLAND LV	1926: Feb.-Dec.
ISOKARI LV	1926: May-Dec.
JUNGFRUSKAR LV	1926: Jan.-Dec.
KALBADAGRUND LV	1926: Jun.-Dec.
KALLBADAN LV	1926: Jan.-Dec.
LAGSKAR LV	1926: Jan.-Dec.
LOHM LV	1926: Jan.-Dec.
MARJANIEMI LV	1926: Mar.-Nov.
MARKET LV	1926: Jan.-Nov.
MARTINSAARI LV	1926: Jan.-Dec.
NAHKIANEN LV	1926: Jun.-Oct.
NORRSKAR LV	1926: Jun.-Oct.
PLEVNA LV	1926: Jun.-Oct.
RELANDERIN LV	1926: May-Dec.
RUSSARO LV	1926: Jan.-Dec.
SALGRUND LV	1926: May-Dec.
SAPPI LV	1926: May-Dec.
SEIVASTO LV	1926: Jan.-Nov.
SNIPAN LV	1926: Jun.-Dec.
SODERSKAR LV	1926: Jan.-Dec.
SOMERI LV	1926: Jan.-Dec.
STORBROTTELN LV	1926: Jan.-Dec.
TAIPALEE LV	1926: Jun.-Nov.
TAMMIO LV	1926: Jan.-Dec.
TANKER LV	1926: Jan.-Dec.
TVARMINNE LV	1926: Aug.-Dec.

1926: Jan.-Dec.
1926: Jan.-Dec.
1926: Jan.-Dec.
1926: Jun.-Dec.

DNO GC3 F5 no.51

34-171

Havsforskningsinstitutet. "Regelmässige Beobachtungen von Temperatur und Salzgehalt des Meeres." & "Beobachtungen von Strom und Wind und der Leuchtschiffen." 1929.

Skrift, no.58 & no.59

ARANSGRUND LV	1927: Jan.-Dec.
BENGTSKAR LV	1927: Jan.-Dec.
HAAPASAARI LV	1927: Jan.-Dec.
HARMAJA LV	1927: Jan.-Dec.
HELSINGKALLAN	1927: Jun.-Nov.
HOCKLAND LV	1927: Jan.-Nov.
ISOKARI LV	1927: Jan.-Dec.
JUNGFRUSKAR LV	1927: Jan.-Dec.
KALBADAGRUND LV	1927: May-Dec.
KALLBADAN LV	1927: Jan.-Dec.
LAGSKAR LV	1927: Jan.-Dec.
LOHM LV	1927: Jan.-Dec.
MARJANIEMI LV	1927: Feb.-Dec.
MARKET LV	1927: Jan.-Dec.
MARTINSAARI LV	1927: Jan.-Dec.
NAVKIANEN LV	1927: Jun.-Oct.
NORRSKAR LV	1927: Apr.-Dec.
PLEVNA LV	1927: Jun.-Oct.
RELANDERIN LV	1927: May-Dec.
RUSSARO LV	1927: Jan.-Dec.
SALGRUND LV	1927: May-Jun.
SAPPI LV	1927: Apr.-Dec.
SEIVASTO LV	1927: Jan.-Nov.

34-171 - Continued

SNIPAN LV
 SODERSKAR LV
 SOMERI LV
 STORBROTEN LV
 TAIPALEENLUOTO
 TAMMIO LV
 TANKER LV
 TVARMINNE LV
 ULKOKALLA LV
 UTO LV
 VALSORARNA LV
 VERKKOMATALA LV

951

1927: Jun.-Nov.
 1927: Jan.-Dec.
 1927: Jan.-Dec.
 1927: Jan.-Dec.
 1927: May-Nov.
 1927: Jan.-Dec.
 1927: Jan.-Dec.
 1927: Jan.-Dec.
 1927: Jan.-Dec.
 1927: Jan.-Dec.
 1927: May-Nov.

DNO GC3 F5 no.58 &
 no.59

34-173

Havsforskningsinstitutet. "Regelmässige
 Beobachtungen von Temperatur und Salzgehalt
 des Meeres." 1930.

Skrift, no.65

ARANSGRUND LV
 ARANSGRUND LV
 BENGTSKAR LV
 BENGTSKAR LV
 HAAPASAARI LV
 HAAPASAARI LV
 HARMAJA LV
 HARMAJA LV
 HELSINGKALLAN
 HELSINGKALLAN
 HOCKLAND LV
 HOCKLAND LV
 ISOKARI LV
 ISOKARI LV
 JUNGFRUSKAR LV

1928: May to
 1929: Jun.
 1928: Jan. to
 1929: Jun.
 1928: Jan. to
 1929: Jun.
 1928: Jan. to
 1929: Jun.
 1928: Jun. to
 1929: Jun.
 1928: Mar. to
 1929: Jun.
 1928: Jul. to
 1929: Jun.
 1928: Jan. to

34-173 - Continued

JUNGFRUSKAR LV
 KALBADAGRUND LV
 KALBADAGRUND LV
 KALLBADAN LV
 KALLBADAN LV
 LAGSKAR LV
 LAGSKAR LV
 LOHM LV
 LOHM LV
 MARJANIEMI LV
 MARJANIEMI LV
 MARKET LV
 MARKET LV
 MARTINSAARI LV
 MARTINSAARI LV
 NAHKIANEN LV
 NAHKIANEN LV
 NORRSKAR LV
 NORRSKAR LV
 PLEVNA LV
 PLEVNA LV
 RELANDERIN LV
 RUSSARO LV
 SALGRUND LV
 SAPPY LV
 SEIVASTO LV
 SNIPAN LV
 SNIPAN LV
 SODERSKAR LV
 SODERSKAR LV
 SOMERI LV
 SOMERI LV
 STORBROTEN LV
 STORBROTEN LV
 TAIPALEENLUOTO
 TAIPALEENLUOTO
 TAMMIO LV
 TAMMIO LV

1929: Jun.
 1928: May to
 1929: Jun.
 1928: Jul. to
 1929: Jun.
 1928: Jul. to
 1929: Jun.
 1928: Jul. to
 1929: Jun.
 1928: Jul. to
 1929: Jun.
 1928: Mar. to
 1929: Jan.
 1928: Mar. to
 1929: Jun.
 1928: Jan. to
 1929: Jul.
 1928: Jul. to
 1929: Jun.
 1928: May to
 1929: Jun.
 1928: Jul. to
 1929: Jun.
 1928: May-Jun.
 1928: Jan.-Jun.
 1928: May-Jun.
 1928: Mar.-Jun.
 1928: Feb.-Jun.
 1928: Jun. to
 1929: Jun.
 1928: Jan. to
 1929: Jun.
 1928: Jan. to
 1929: Jun.
 1928: Jan. to
 1929: Jun.
 1928: Jun. to
 1929: Jun.
 1928: Jan. to
 1929: Jun.
 1928: Jun. to
 1929: Jun.
 1928: Jan. to
 1929: Jun.

34-173 - Continued

TANKER LV	1928: Jan.-Jun.
TVARMINNE LV	1928: Jul to
TVARMINNE LV	1929: Jun.
ULKOKALLA LV	1928: Jul. to
ULKOKALLA LV	1929: Jun.
UTO LV	1928: Jul. to
UTO LV	1929: Jun.
VALSORARNA LV	1928: Jul. to
VALSORARNA LV	1929: Jun.
VERKKOMATALA LV	1929: May-Jun.
1329	DNO GC3 F5 no.65

34-174

Havsforskningsinstitutet. "Regelmässige Beobachtungen von Temperatur und Salzgehalt des Heeres." 1931.

Skrift, no.75

ARANSGRUND LV	1929: Jul. to
ARANSGRUND LV	1930: Jun.
BENGTSKAR LV	1929: Jul. to
BENGTSKAR LV	1930: Jun.
HAAPASAARI LV	1929: Jul. to
HAAPASAARI LV	1930: Jun.
HARMAJA LV	1929: Jul. to
HARMAJA LV	1930: Jun.
HELSINGKALLAN	1929: Jul. to
HELSINGKALLAN	1930: Jun.
HOCKLAND LV	1929: Jul. to
HOCKLAND LV	1930: Jun.
ISOKARI LV	1929: Jul. to
ISOKARI LV	1930: Jun.
JUNGFRUSKAR LV	1929: Jul. to
JUNGFRUSKAR LV	1930: Jun.
KALBADAGRUND LV	1929: Jul. to
KALBADAGRUND LV	1930: Jun.

34-174 - Continued

KALLBADAN LV	1928: Jul. to
KALLBADAN LV	1930: Jun.
LAGSKAR LV	1929: Jul. to
LAGSKAR LV	1930: Jun.
LOHM LV	1929: Jul. to
LOHM LV	1930: Jun.
MARJANIEMI LV	1929: Jul. to
MARJANIEMI LV	1930: Jun.
MARKET LV	1929: Jul. to
MARKET LV	1930: Jun.
MARTINSAARI LV	1929: Jul. to
MARTINSAARI LV	1930: Jun.
NAVKIANEN LV	1929: Jul. to
NAVKIANEN LV	1930: Jun.
NORRSKAR LV	1929: Jul. to
NORRSKAR LV	1930: Jun.
PLEVNA LV	1929: Jul. to
PLEVNA LV	1930: Jun.
RELANDERIN LV	1929: Jul. to
RELANDERIN LV	1930: Jun.
RUSSARO LV	1929: Jul. to
RUSSARO LV	1930: Jun.
SALGRUND LV	1929: Jul. to
SALGRUND LV	1930: Jun.
SAPPI LV	1929: Jul. to
SAPPI LV	1930: Jun.
SEIVASTO LV	1929: Jul. to
SEIVASTO LV	1930: Jun.
SNIPAN LV	1929: Jul. to
SNIPAN LV	1930: Jun.
SODERSKAR LV	1929: Jul. to
SODERSKAR LV	1930: Jun.
SOMERI LV	1929: Jul. to
SOMERI LV	1930: Jun.
STORBRÖTTEN LV	1929: Jul. to
STORBRÖTTEN LV	1930: Jun.
TAIPALEENLUOTO	1929: Jul. to
TAIPALEENLUOTO	1930: Jun.

34-177 - Continued

STORBRÖTTEN LV	1932: Jul. to
STORBRÖTTEN LV	1933: Jun.
SUURSAARI	1932: Jul. to
SUURSAARI	1933: Jun.
TAIPALEENLUOTO	1932: Jul. to
TAIPALEENLUOTO	1933: Jun.
TAMMIO LV	1932: Jul. to
TAMMIO LV	1933: Jun.
TANKER LV	1932: Jul. to
TANKER LV	1933: Jun.
TVARMINNE LV	1932: Jul. to
TVARMINNE LV	1933: Jun.
ULKOKALLA LV	1932: Jul. to
ULKOKALLA LV	1933: Jun.
UTO LV	1932: Jul. to
UTO LV	1933: Jun.
VALSORARNA LV	1932: Jul. to
VALSORARNA LV	1933: Jun.
VITANIEMI LV	1932: Jul. to
VITANIEMI LV	1933: Jun.

1013

DNO GC3 F5 no.92

34-178

Havsforkningsinstitutet. "Regular Observations of Temperature and Salinity in the Seas around Finland." 1935.

Skrift, no.100

BENGTSKAR LV	1933: Jul. to
BENGTSKAR LV	1934: Jun.
HAAPASAARI LV	1933: Jul. to
HAAPASAARI LV	1934: Jun.
HARHAJA LV	1933: Jul. to
HARHAJA LV	1934: Jun.
HELSINKI LV	1933: Jul. to
HELSINKI LV	1934: Jun.

34-178 - Continued

ISOKARI LV	1933: Jul. to
ISOKARI LV	1934: Jun.
JUNGFRUSKAR LV	1933: Jul. to
JUNGFRUSKAR LV	1934: Jun.
KALBADAGRUND LV	1933: Jul. to
KALBADAGRUND LV	1934: Jun.
KALLBADAN LV	1933: Jul. to
KALLBADAN LV	1934: Jun.
KEMI LV	1933: Jul. to
KEMI LV	1934: Jun.
LAGSKAR LV	1933: Jul. to
LAGSKAR LV	1934: Jun.
LOHM LV	1933: Jul. to
LOHM LV	1934: Jun.
MARJANIEMI LV	1933: Jul. to
MARJANIEMI LV	1934: Jun.
MARKET LV	1933: Jul. to
MARKET LV	1934: Jun.
MARTINSAARI LV	1933: Jul. to
MARTINSAARI LV	1934: Jun.
NAHKIANEN LV	1933: Jul. to
NAHKIANEN LV	1934: Jun.
NORRSKAR LV	1933: Jul. to
NORRSKAR LV	1934: Jun.
RAUMA LV	1933: Jul. to
RAUMA LV	1934: Jun.
RUSSARO LV	1933: Jul. to
RUSSARO LV	1934: Jun.
SALGRUND LV	1933: Jul. to
SALGRUND LV	1934: Jun.
SAPPI LV	1933: Jul. to
SAPPI LV	1934: Jun.
SEIVASTO LV	1933: Jul. to
SEIVASTO LV	1934: Jun.
SNIPAN LV	1933: Jul. to
SNIPAN LV	1934: Jun.
SODERSKAR LV	1933: Jul. to
SODERSKAR LV	1934: Jun.

34-178 - Continued

SOMERI LV	1933:	Jul. to
SOMERI LV	1934:	Jun.
STORBRÖTTEN LV	1933:	Jul. to
STORBRÖTTEN LV	1934:	Jun.
SUURSAARI	1933:	Jul. to
SUURSAARI	1934:	Jun.
TAIPALEENLUOTO	1933:	Jul. to
TAIPALEENLUOTO	1934:	Jun.
TAMMIO LV	1933:	Jul. to
TAMMIO LV	1934:	Jun.
TANKER LV	1933:	Jul. to
TANKER LV	1934:	Jun.
TVÄRMINNE LV	1933:	Jul. to
TVÄRMINNE LV	1934:	Jun.
ULKOKALLA LV	1933:	Jul. to
ULKOKALLA LV	1934:	Jun.
UTO LV	1933:	Jul. to
UTO LV	1934:	Jun.
VALSORARNA LV	1933:	Jul. to
VALSORARNA LV	1934:	Jun.
VITANIEMI LV	1933:	Jul. to
VITANIEMI LV	1934:	Jun.

974 DNO GC3 F5 no.100

34-179

Havsforskningsinstitutet. "Regu ar Observations of Temperature and Salinity in the Seas around Finland." 1936.

Skrift, no.105

BENGTSKAR LV	1934:	Jul. to
BENGTSKAR LV	1935:	Jun.
HAAPASAARI LV	1934:	Jul. to
HAAPASAARI LV	1935:	Jun.
HARWAJA LV	1934:	Jul. to
HARWAJA LV	1935:	Jun.

34-179 - Continued

HELSINKI LV	1934:	Jul. to
HELSINKI LV	1935:	Jun.
ISOKARI LV	1934:	Jul. to
ISOKARI LV	1935:	Jun.
JUNGFRUSKAR LV	1934:	Jul. to
JUNGFRUSKAR LV	1935:	Jun.
KALBADAGRUND LV	1934:	Jul. to
KALBADAGRUND LV	1935:	Jun.
KALBADAGRUND LV	1934:	Jul. to
KALBADAGRUND LV	1935:	Jun.
KEMI LV	1934:	Jul. to
KEMI LV	1935:	Jun.
LAGSKAR LV	1934:	Jul. to
LAGSKAR LV	1935:	Jun.
LOHM LV	1934:	Jul. to
LOHM LV	1935:	Jun.
MARJANIEMI LV	1934:	Jul. to
MARJANIEMI LV	1935:	Jun.
MARKET LV	1934:	Jul. to
MARKET LV	1935:	Jun.
MARTINSAARI LV	1934:	Jul. to
MARTINSAARI LV	1935:	Jun.
NAHKIANEN LV	1934:	Jul. to
NAHKIANEN LV	1935:	Jun.
NORRSKAR LV	1934:	Jul. to
NORRSKAR LV	1935:	Jun.
RAUMA LV	1934:	Jul. to
RAUMA LV	1935:	Jun.
RUSSARO LV	1934:	Jul. to
RUSSARO LV	1935:	Jun.
SALGRUND LV	1934:	Jul. to
SALGRUND LV	1935:	Jun.
SAPPI LV	1934:	Jul. to
SAPPI LV	1935:	Jun.
SEIVASTO LV	1934:	Jul. to
SEIVASTO LV	1935:	Jun.
SNIPAN LV	1934:	Jul. to
SNIPAN LV	1935:	Jun.

34-179 - Continued

SODERSKAR LV	1934:	Jul.	to
SODERSKAR LV	1935:	Jun.	
SOMERI LV	1934:	Jul.	to
SOMERI LV	1935:	Jun.	
STORBROTEN LV	1934:	Jul.	to
STORBROTEN LV	1935:	Jun.	
SUURSAARI	1934:	Jul.	to
SUURSAARI	1935:	Jun.	
TAIPALEENLUOTO	1934:	Jul.	to
TAIPALEENLUOTO	1935:	Jun.	
TAMMIO LV	1934:	Jul.	to
TAMMIO LV	1935:	Jun.	
TANKER LV	1934:	Jul.	to
TANKER LV	1935:	Jun.	
TVARMINNE LV	1934:	Jul.	to
TVARMINNE LV	1935:	Jun.	
ULKOKALLA LV	1934:	Jul.	to
ULKOKALLA LV	1935:	Jun.	
UTO LV	1934:	Jul.	to
UTO LV	1935:	Jun.	
VALSORARNA LV	1934:	Jul.	to
VALSORARNA LV	1935:	Jun.	
VITANIEMI LV	1934:	Jul.	to
VITANIEMI LV	1935:	Jun.	

986 DNO GC3 F5 no.105

34-180

Havsforskningsinstitutet. "Regular Observations of Temperature and Salinity in the Seas around Finland." 1937.

Skrift, no.109

BENGTSKAR LV	1935:	Jul.	to
BENGTSKAR LV	1936:	Jun.	
HAAPASAARI LV	1935:	Jul.	to
HAAPASAARI LV	1936:	Jun.	

34-180 - Continued

HARMAJA LV	1935:	Jul.	to
HARMAJA LV	1936:	Jun.	
HELSINKI LV	1935:	Jul.	to
HELSINKI LV	1936:	Jun.	
ISOKARI LV	1935:	Jul.	to
ISOKARI LV	1936:	Jun.	
JUNGFRUSKAR LV	1935:	Jul.	to
JUNGFRUSKAR LV	1936:	Jun.	
KALBADAGRUND LV	1935:	Jul.	to
KALBADAGRUND LV	1936:	Jun.	
KALLBADAN LV	1935:	Jul.	to
KALLBADAN LV	1936:	Jun.	
KEMI LV	1935:	Jul.	to
KEMI LV	1936:	Jun.	
LAGSKAR LV	1935:	Jul.	to
LAGSKAR LV	1936:	Jun.	
LOHM LV	1935:	Jul.	to
LOHM LV	1936:	Jun.	
MARJANIEMI LV	1935:	Jul.	to
MARJANIEMI LV	1936:	Jun.	
MARKET LV	1935:	Jul.	to
MARKET LV	1936:	Jun.	
MARTINSAARI LV	1935:	Jul.	to
MARTINSAARI LV	1936:	Jun.	
NAHKIANEN LV	1935:	Jul.	to
NAHKIANEN LV	1936:	Jun.	
NOVISKAR LV	1935:	Jul.	to
NOVISKAR LV	1936:	Jun.	
RAUMA LV	1935:	Jul.	to
RAUMA LV	1936:	Jun.	
RUSSARO LV	1935:	Jul.	to
RUSSARO LV	1936:	Jun.	
SALGRUND LV	1935:	Jul.	to
SALGRUND LV	1936:	Jun.	
SAPPI LV	1935:	Jul.	to
SAPPI LV	1936:	Jun.	
SEIVASTO LV	1935:	Jul.	to
SEIVASTO LV	1936:	Jun.	

34-180 - Continued

SVIPAN LV	1935:	Jul. to
SAIPAN LV	1936:	Jun. to
SOGERSKAR LV	1935:	Jul. to
SOGERSKAR LV	1936:	Jun. to
SOMERI LV	1935:	Jul. +
SOMERI LV	1936:	Jun. to
STORBRITTEN LV	1935:	Jul. to
STORBRITTEN LV	1936:	Jun. to
SUURSAARI	1935:	Jul. to
SUURSAARI	1936:	Jun. to
TAIPALEENLUOTO	1935:	Jul. to
TAIPALEENLUOTO	1936:	Jun. to
TAMMIO LV	1935:	Jul. to
TAMMIO LV	1936:	Jun. to
TANKER LV	1935:	Jul. to
TANKER LV	1936:	Jun. to
TVARMINNE LV	1935:	Jul. to
TVARMINNE LV	1936:	Jun. to
ULKOKALLA LV	1935:	Jul. to
ULKOKALLA LV	1936:	Jun. to
UTO LV	1935:	Jul. to
UTO LV	1936:	Jun. to
VALSORARNA LV	1935:	Jul. to
VALSORARNA LV	1936:	Jun. to
VITANIEMI LV	1935:	Jul. to
VITANIEMI LV	1936:	Jun. to
985	DNO GC3 F5 no.109	

34-181
Havsforkningsinstitutet. "Regular Observations of Temperature and Salinity in the Seas around Finland." 1938.

Skrift, no.120

BENGTSKAR LV	1936:	Jul. to
BENGTSKAR LV	1937:	Jun. to

34-181 - Continued

HAAPASAARI LV	1936:	Jul. to
HAAPASAARI LV	1937:	Jun. to
HARMAJA LV	1936:	Jul. to
HARMAJA LV	1937:	Jun. to
HELSINKI LV	1936:	Jul. to
HELSINKI LV	1937:	Jun. to
ISOKARI LV	1936:	Jul. to
ISOKARI LV	1937:	Jun. to
JUNGFRUSKAR LV	1936:	Jul. to
JUNGFRUSKAR LV	1937:	Jun. to
KALBADAGRUND LV	1936:	Jul. to
KALBADAGRUND LV	1937:	Jun. to
KALLBADAN LV	1936:	Jul. to
KALLBADAN LV	1937:	Jun. to
KEMI LV	1936:	Jul. to
KEMI LV	1937:	Jun. to
LAGSKAR LV	1936:	Jul. to
LAGSKAR LV	1937:	Jun. to
LOHM LV	1936:	Jul. to
LOHM LV	1937:	Jun. to
MARJANIEMI LV	1936:	Jul. to
MARJANIEMI LV	1937:	Jun. to
MARKET LV	1936:	Jul. to
MARKET LV	1937:	Jun. to
MARTINSAARI LV	1936:	Jul. to
MARTINSAARI LV	1937:	Jun. to
NAHKIANEN LV	1936:	Jul. to
NAHKIANEN LV	1937:	Jun. to
NORRSKAR LV	1936:	Jul. to
NORRSKAR LV	1937:	Jun. to
RAUMA LV	1936:	Jul. to
RAUMA LV	1937:	Jun. to
RUSSARO LV	1936:	Jul. to
RUSSARO LV	1937:	Jun. to
SALGRUND LV	1936:	Jul. to
SALGRUND LV	1937:	Jun. to
SAPPI LV	1936:	Jul. to
SAPPI LV	1937:	Jun. to

34-181 - Continued

SEIVASTO LV	1936: Jul. to
SEIVASTO LV	1937: Jun.
SNIPAN LV	1936: Jul. to
SNIPAN LV	1937: Jun.
SODERSKAR LV	1936: Jul. to
SODERSKAR LV	1937: Jun.
SOMERI LV	1936: Jul. to
SOMERI LV	1937: Jun.
STORBRÖTTEN LV	1936: Jul. to
STORBRÖTTEN LV	1937: Jun.
SUURSAARI	1936: Jul. to
SUURSAARI	1937: Jun.
TAIPALEENLUOTO	1936: Jul. to
TAIPALEENLUOTO	1937: Jun.
TAMMIO LV	1936: Jul. to
TAMMIO LV	1937: Jun.
TANKER LV	1936: Jul. to
TANKER LV	1937: Jun.
TVARMINNE LV	1936: Jul. to
TVARMINNE LV	1937: Jun.
ULKOKALLA LV	1936: Jul. to
ULKOKALLA LV	1937: Jun.
UTO LV	1936: Jul. to
UTO LV	1937: Jun.
VALSORARMA LV	1936: Jul. to
VALSORARMA LV	1937: Jun.
VITANIEMI LV	1936: Jul. to
VITANIEMI LV	1937: Jun.

DNO GC3 F5 no.120

34-182

Havsforkningsinstitutet. "Strom und Wind-
beobachtungen an den Feuerschiffen." 1939. &
"Regular Observations of Temperature and Salinity
in the Seas around Finland." 1940., & "Observa-
tions on Current and Winds." 1946.

34-182 - Continued

Skrift, no.121 & no.126 & no.137	
BENGTSKAR LV	1937: Jul. to
BENGTSKAR LV	1938: Jun.
HAAPASAARI LV	1937: Jul. to
HAAPASAARI LV	1938: Jun.
HARMAJA LV	1937: Jul. to
HARMAJA LV	1938: Jun.
HELSINKI LV	1937: Jul. to
HELSINKI LV	1938: Jun.
ISOKARI LV	1937: Jul. to
ISOKARI LV	1938: Jun.
JUNGFRUSKAR LV	1937: Jul. to
JUNGFRUSKAR LV	1938: Jun.
KALBADAGRUND LV	1937: Jul. to
KALBADAGRUND LV	1938: Jun.
KALLBADAN LV	1937: Jul. to
KALLBADAN LV	1938: Jun.
KEMI LV	1937: Jul. to
KEMI LV	1938: Jun.
LAGSKAR LV	1937: Jul. to
LAGSKAR LV	1938: Jun.
LOHM LV	1937: Jul. to
LOHM LV	1938: Jun.
MARJANIEMI LV	1937: Jul. to
MARJANIEMI LV	1938: Jun.
MARKET LV	1937: Jul. to
MARKET LV	1938: Jun.
MARTINSAARI LV	1937: Jul. to
MARTINSAARI LV	1938: Jun.
NAIKIANEN LV	1937: Jul. to
NAIKIANEN LV	1938: Jun.
NORRSKAR LV	1937: Jul. to
NORRSKAR LV	1938: Jun.
RAUMA LV	1937: Jul. to
RAUMA LV	1938: Jun.
RUSSARO LV	1937: Jul. to
RUSSARO LV	1938: Jun.

34-183 - Continued

RAUMA LV	1938: Jul. to	
RAUMA LV	1939: Jun.	
RUSSARO LV	1938: Jul. to	
RUSSARO LV	1939: Jun.	
SALGRUND LV	1938: Jul. to	
SALGRUND LV	1939: Jun.	
SAPPI LV	1938: Jul. to	
SAPPI LV	1939: Jun.	
SEIVASTO LV	1938: Jul. to	
SEIVASTO LV	1939: Jun.	
SNIPAN LV	1938: Jul. to	
SNIPAN LV	1939: Jun.	
SODERSKAR LV	1938: Jul. to	
SODERSKAR LV	1939: Jun.	
SOMERI LV	1938: Jul. to	
SOMERI LV	1939: Jun.	
STORBROTTEN LV	1938: Jul. to	
STORBROTTEN LV	1939: Jun.	
TAIPALEENLUOTO	1938: Jul. to	
TAMMIO LV	1938: Jul. to	
TAMMIO LV	1939: Jun.	
TANKER LV	1938: Jul. to	
TANKER LV	1939: Jun.	
TVARMINNE LV	1938: Jul. to	
TVARMINNE LV	1939: Jun.	
ULKOKALLA LV	1938: Jul. to	
ULKOKALLA LV	1939: Jun.	
UTO LV	1938: Jul. to	
UTO LV	1939: Jun.	
VALSORARNA LV	1938: Jul. to	
VALSORARNA LV	1939: Jun.	
VITANIEMI LV	1938: Jul. to	
VITANIEMI LV	1939: Jun.	
DNO GC3 F5 no.129 & no.137		

974

34-184

Havsforskningsinstitutet. "Regular Observations of Temperature and Salinity in the Seas around Finland." 1945.

Skrift, no.135

BENGTSKAR LV	1939: Jul. to	
BENGTSKAR LV	1940: Jun.	
HAAPASAARI LV	1939: Jul. to	
HAAPASAARI LV	1940: Jun.	
HARMAJA LV	1939: Jul. to	
HARMAJA LV	1940: Jun.	
HELSINKI LV	1939: Jul. to	
HELSINKI LV	1940: Jun.	
ISOKARI LV	1939: Jul. to	
ISOKARI LV	1940: Jun.	
JUNGERUSKAR LV	1939: Jul. to	
JUNGERUSKAR LV	1940: Jun.	
KALBADAGRUND LV	1939: Jul. to	
KALBADAGRUND LV	1940: Jun.	
KALLBADAN LV	1939: Jul. to	
KALLBADAN LV	1940: Jun.	
KEMI LV	1939: Jul. to	
KEMI LV	1940: Jun.	
LAGSKAR LV	1939: Jul. to	
LAGSKAR LV	1940: Jun.	
LOHM LV	1939: Jul. to	
LOHM LV	1940: Jun.	
MARJANIEMI LV	1939: Jul. to	
MARJANIEMI LV	1940: Jun.	
MARKET LV	1939: Jul. to	
MARTINSARRI LV	1939: Jul. to	
MARTINSARRI LV	1940: Jun.	
NAHKIANEN LV	1939: Jul. to	
NAHKIANEN LV	1940: Jun.	
NORRSKAR LV	1939: Jul. to	
RAUMA LV	1939: Jul. to	

34-184 - Continued

KAUMA LV	1940: Jun.
RUSSARO LV	1939: Jul.-Nov.
SALGRUND LV	1939: Jul. to
SALGRUND LV	1940: Jun.
SAPPI LV	1939: Jul. to
SAPPI LV	1940: Jun.
SEIVASTO LV	1939: Jul.-Oct.
SNIPAN LV	1939: Jul. to
SNIPAN LV	1940: Jun.
SODERSKAR LV	1939: Jul. to
SODERSKAR LV	1940: Jun.
SOMERI LV	1939: Jul. to
SOMERI LV	1940: Jun.
STORBROTTEN LV	1939: Jul.-Dec.
SUURSAARI	1939: Jul.-Sep.
TAMMIO LV	1939: Jul. to
TAMMIO LV	1940: Jun.
TANKER LV	1939: Jul. to
TANKER LV	1940: Jun.
TVARINNE LV	1939: Jul. to
TVARINNE LV	1940: Jun.
ULKOKALLA LV	1939: Jul. to
ULKOKALLA LV	1940: Jun.
UTO LV	1939: Jul. to
UTO LV	1940: Jun.
VALSORARNA LV	1939: Jul. to
VALSORARNA LV	1940: Jun.
VITANIEMI LV	1939: Jul.-Oct.

678 DNO GC3 F5 no.135

34-185

Havsforskningsinstitutet. "Regular Observations of Temperature and Salinity in the Seas around Finland." 1948.

Skrift, no.142

34-185 - Continued

BENGTSKAR LV	1940: to
BENGTSKAR LV	1941: to
BENGTSKAR LV	1942: to
BENGTSKAR LV	1943: to
BENGTSKAR LV	1944: to
BENGTSKAR LV	1945: to
BENGTSKAR LV	1946: to
HAAPASAARI LV	1940: to
HAAPASAARI LV	1941: to
HAAPASAARI LV	1942: to
HAAPASAARI LV	1943: to
HAAPASAARI LV	1944: to
HARMAJA LV	1940: to
HARMAJA LV	1941: to
HARMAJA LV	1942: to
HARMAJA LV	1943: to
HARMAJA LV	1944: to
HARMAJA LV	1945: to
HARMAJA LV	1946: to
HELSINKI LV	1940: to
HELSINKI LV	1941: to
HELSINKI LV	1942: to
HELSINKI LV	1943: to
HELSINKI LV	1944: to
HELSINKI LV	1945: to
HELSINKI LV	1946: to
ISOKARI LV	1940: Jul. to
ISOKARI LV	1941: to
ISOKARI LV	1942: Sep.
JUNGFRUSKAR LV	1940: to
JUNGFRUSKAR LV	1941: to
JUNGFRUSKAR LV	1942: to
JUNGFRUSKAR LV	1943: to
JUNGFRUSKAR LV	1944: to
JUNGFRUSKAR LV	1945: to
JUNGFRUSKAR LV	1946: to
KALBADAGRUND LV	1940: to
KALBADAGRUND LV	1941: to

34-185 - Continued

KALBADAGRUND LV
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34-185 - Continued

MARKET LV
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34-185 - Continued

SNIPAN LV	1941: to
SNIPAN LV	1942: to
SNIPAN LV	1943: to
SNIPAN LV	1944: to
SNIPAN LV	1945: to
SNIPAN LV	1946: to
SODERSKAR LV	1940: to
SODERSKAR LV	1941: to
SODERSKAR LV	1942: to
SODERSKAR LV	1943: to
SODERSKAR LV	1944: to
SODERSKAR LV	1945: to
SODERSKAR LV	1946: to
STORBROTTEN LV	1946: Jun.
SUURSAARI	1944: May-Aug.
TAMMIO LV	1940: Jul. to
TAMMIO LV	1941: to
TAMMIO LV	1942: to
TAMMIO LV	1943: to
TAMMIO LV	1944: to
TAMMIO LV	1945: to
TAMMIO LV	1946: to
TANKER LV	1940: to
TANKER LV	1941: to
TANKER LV	1942: to
TANKER LV	1943: to
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TANKER LV	1945: to
TANKER LV	1946: to
TVARMINNE LV	1942: to
TVARMINNE LV	1943: to
TVARMINNE LV	1944: to
TVARMINNE LV	1945: to
TVARMINNE LV	1946: to
ULKOKALLA LV	1940: to
ULKOKALLA LV	1941: to
ULKOKALLA LV	1942: to
ULKOKALLA LV	1943: to

34-185 - Continued

ULKOKALLA LV	1944: to
ULKOKALLA LV	1945: to
ULKOKALLA LV	1946: to
UTO LV	1940: to
UTO LV	1941: to
UTO LV	1942: to
UTO LV	1943: to
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UTO LV	1945: to
UTO LV	1946: to
VALSORARNA LV	1940: to
VALSORARNA LV	1941: to
VALSORARNA LV	1942: to
VALSORARNA LV	1943: to
VALSORARNA LV	1944: to
VALSORARNA LV	1945: to
VALSORARNA LV	1946: to
3075	DNO GC3 F5 no.142
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Skift, no.124	
NAUTILUS (Finl.)	1938: 26 Apr.-10 May
60	DNO GC3 F5 no.124
34-187	
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Skift, no.127	
ARANDA	1939: 08-16 Jul.

34-187 - Continued

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DNO GC3 F5 no.127

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ARANDA

1939: 24 Jul.-15 Aug.

103

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International Council for the Exploration of the Sea. "Nitrates and Phosphates in the Southern Seas." Copenhagen, 1930.

Journal du Conseil, vol. 5, no.3

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1929: 27 Oct. to

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1930: 17 Feb.

14

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34-260

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1911: Jan.-Dec.

ARANGSGRUND LV

1911: Jan.-Dec.

BOGSKAR LV

1911: Jan.-Dec.

HANKO LV

1911: Jan.-Dec.

HARMAJA LV

1911: Jan.-Dec.

34-260 - Continued

HELSINGKALLAN

1911: Jun.-Nov.

MARKET LV

1911: Jan.-Dec.

NAHKIANEN LV

1911: Jan.-Dec.

PLEVNA LV

1911: Sep.-Nov.

PORKALA LV

1911: Jan.-Dec.

RELANDERIN LV

1911: May-Dec.

SAPPI LV

1911: Jan.-Nov.

SNIPAN LV

1911: Jan.-Nov.

STORBROTTEN LV

1911: Jan.-Dec.

STORKALLEGRUND LV

1911: Mar.-Nov.

TAIPALEENLUOTO

1911: Jan.-Nov.

ULKOKALLA LV

1911: Mar.-Dec.

UTO LV

1911: Jan.-Dec.

VERKKOMATALA LV

1911: May-Dec.

603

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34-754

Havsforskningsinstitutet. "Chemical Data." 1957.

"Hydrographical and

Skrift, no.177

ARANDA

1955: 15 Jun.-24 Aug.

110

NODC Files

340732

Havsforskningsinstitutet. "Chemical Data." 1958.

"Hydrographical and

Skrift, no.179

ARANDA

1957: 01-26 Jul.

55

NODC Files

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34-763	Havsforskningsinstitutet. "Hydrographical and Chemical Data."		
	Skrift, no.183		1960: 12-18 Aug.
	ARANDA	1956: 05-28 Jun., 03-07 Sep.	1959: 04-09 Oct.
126		DNO GC3 F5 no.183	1960: 10 May-18 Oct
34-824	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1959.		DNO GC1 COEC v.XIV no.3
	Annee 1954		
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118			
34-881	Havsforskningsinstitutet. "Hydrographical Data."		
	1959.	1954: Jul.-Aug.	
	Skrift, no.193	NODC Files	
	ARANDA		
90		1958: 12-26 Jun., 18-30 Aug.	
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35-001	Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1962.		
	XIV Annee no.3		
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	BEAUTEMP BEAUPRE		
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35-002	Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1962.		
	XIV Annee no.6		
	LE FRINGANT		
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	FRANCE II	1960: 17 Aug.-02 Sep.	
		1960: 10-12 Sep.	
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			DNO GC1 COEC v.XIV no.6
35-003	Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1962.		
	XIV Annee no.5 & 7		
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	"GIBRALTAR"	1961: 15 May-10 Jun.	
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35-004	Institut des Peches Maritimes. "Appareils, Methodes et Liste des Stations." Paris, 1960.		
	Revue des Travaux, tome XXXIV fasc. 1		
	PRESIDENT THEODORE TISSIER	1957: 13 Jun.-20 Jul.	
130			
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35-008 - Continued

35-005	Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1963.	1960: 10 Oct.-06 Dec.
	XV Annee no.1	
	AVENTURE	
11	1960: 19 Sep.-10 Nov. NODC Files	
35-006	Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1963.	
	XV Annee no.4	
	COMMANDANT ROBERT GIRAUD	
64	1957: 11 Oct.-28 Nov. NODC Files	
35-007	Comite d'Océanographie et d'Etude des Cotes.(COEC). "Cahiers Oceanographiques." 1962.	
	XIV Annee no.10	
	FRANCE I	
	"OWS 'A'"	
	"OWS 'J'"	
	"OWS 'K'"	
11	1960: 10 Oct.-06 Dec. NODC Files	
35-008	Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1964.	
	XVI Annee no.2	
	OMBANGO	
	"CRUISE 12"	
	"CRUISE 13"	
17	NODC Files	
35-009	Musee National d'Histoire Naturelle. Laboratoire d'Océanographie Physique.	
	Originator's Coding Forms	
	NORSEL	
	1959: 28 Feb.-10 Mar.	
15	NODC Files	
35-010	Musee National d'Histoire Naturelle. Laboratoire d'Océanographie Physique.	
	Originator's Coding Forms	
	COMMANDANT ROBERT GIRAUD	
	"CRUISE 2"	
119	1960: 04 Jul.-16 Sep. NODC Files	
35-011	Musee National d'Histoire Naturelle. Laboratoire d'Océanographie Physique.	
	Originator's Coding Forms	
	COMMANDANT ROBERT GIRAUD	
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	"CRUISE 3"	
	1962: 21 Apr.-01 Jun.	

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98 NODC Files
35-012
Musée National d'Histoire Naturelle. Laboratoire
d'Océanographie Physique.

Originator's Coding Forms

COMMANDANT ROBERT GIRAUD 1962: 25 Dec. to
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"CRUISE 5"
COMMANDANT ROBERT GIRAUD 1963: 12 Feb.
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"CRUISE 5"

120 NODC Files
35-013
Musée National d'Histoire Naturelle. Laboratoire
d'Océanographie Physique.

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COMMANDANT ROBERT GIRAUD 1962: 08 Jul.-15 Oct.
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115 NODC Files
35-014
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38 NODC Files

350026
International Council for the Exploration of
the Sea. "Bulletin Hydrographique." Copen-
hagen, 1932.

Annees 1930 to 1931 (2 v.)

SENTINELLE 1930: Jul.-Aug.
ESTAFETTE 1931: Mar.-Aug.

44 NODC Files

350027
International Council for the Exploration of
the Sea. "Bulletin Hydrographique." Copen-
hagen, 1933-1935.

Annees 1932 to 1934 (3 v.)

SENTINELLE 1932: Jul.-Aug.
PRESIDENT THEODORE TISSIER 1932: Nov.-Dec.
PRESIDENT THEODORE TISSIER 1933: Dec. to
PRESIDENT THEODORE TISSIER 1934: Jan.
VILLE D'YS 1934: Jul.
AILETTE 1934: Nov.

153 NODC Files

350028
International Council for the Exploration of
the Sea. "Bulletin Hydrographique." Copen-
hagen, 1936-39.

350028 - Continued

Annees 1935 to 1937 (3 v.)

AILETTE 1935: to
 AILETTE 1936: to
 AILETTE 1937:
 QUENTIN ROOSEVELT 1935: to
 QUENTIN ROOSEVELT 1936: to
 QUENTIN ROOSEVELT 1937:
 PRESIDENT THEODORE TISSIER 1936: Sep.
 VIERGE DE FOULOGNE 1935: Apr.
 SANDETTIE 1936:
 VILLE D'YS 1937: May-Jul.

298 NODC Files

35-029

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 Region du Detroit de Gibraltar." 1964.

Fasc. V

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47

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350140

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 the Sea. "Rapports et Proces-Verbaux des Re-
 unions." Copenhagen, 1925.

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TANCHE

1924: 08 May-12 Aug.

50

DNO GC1 I66 v. 37 &

350141

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 the Sea. "Rapports et Proces-Verbaux des Re-
 unions." Copenhagen, 1932.

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SENTINELLE

1930: 24 May-06 Jun.

5

DNO GC1 I66 v. 77 &
 NODC (Partial copy)

350143

International Council for the Exploration of
 the Sea. "Rapports et Proces-Verbaux des Re-
 unions." Copenhagen, 1925.

vol. XXV

TANCHE
 POURQUOIS-PAS
 TEMERAIRE

1923: 04 May-20 Aug.
 1923: 02-25 Aug.
 1923: 06-08 Jun.
 1923: 17-19 Dec.

120

DNO GC1 I66 v. 25 &
 NODC (Partial copy)

350144

International Council for the Exploration of
 the Sea. "Rapports et Proces-Verbaux des Re-
 unions." Copenhagen, 1929.

vol. LX

TADORNE

TANCHE

POURQUOIS-PAS

ENGAGEANTE

1925: 05 Jan.-13 Nov.
 1925: 17 Oct.-02 Nov.
 1925: 12 Jul.-30 Sep.
 1925: 13 May-16 Nov.

350144 - Continued

105

DNO GC1 I66 v.60 &
NODC (Partial copy)

350145

International Council for the Exploration of
the Sea. "Rapports et Proces-Verbaux des Re-
unions." Copenhagen, 1929.

vol. LY

NOT GIVEN
TANCHE

1927: 02 Feb.-17 Aug.
1927: 11-31 Aug.

67

DNO GC1 I66 v.55 &
NODC (Partial copy)

350146

International Council for the Exploration of
the Sea. "Rapports et Proces-Verbaux des Re-
unions." Copenhagen, 1931.

vol. LXX

POURQUOIS-PAS

PETREL

NOT GIVEN

1929: 16 May-06 Jun.
1929: 03-13 Jul.
1929: 31 Aug.-29 Sep.

47

DNO GC1 I66 v.70 &
NODC (Partial copy)

350147

International Council for the Exploration of
the Sea. "Rapports et Proces-Verbaux des Re-
unions; Rapport Atlantique." Copenhagen, 1933.

vol. LXXXIV

ESTAFETTE

1931: 29 Apr.-22 Aug.

350147 - Continued

66

DNO GC1 I66 v.84 &
NODC (Partial copy)

350148

International Council for the Exploration of
the Sea. "Rapports et Proces-Verbaux des Re-
unions." Copenhagen, 1923.

vol. XXIX

TANCHE

POURQUOI-PAS

PETREL

CONQUERANTE

ENGAGEANTE

1921: 06 Jul.-25 Sep.
1921: 29 Jun.-04 Sep.
1921: 27 Aug.-20 Sep.
1921: 15 Jun.-30 Sep.
1921: 01 Oct.-10 Nov.

192

DNO GC1 I66 v.29 &
NODC (Partial copy)

350149

International Council for the Exploration of
the Sea. "Rapports et Proces-Verbaux des Re-
unions." Copenhagen, 1929.

vol. XLIV

ENGAGEANTE

VAILLANTE

ESTAFETTE

POURQUOI-PAS

TANCHE

HEBE

1926: 10 Mar.-17 Nov.
1926: 11 Mar.-17 Nov.
1926: 08-19 Mar.
1926: 16 Jun.-03 Jul.
1926: 25 Jul.-12 Sep.
1926: 22 May-26 Jun.

191

DNO GC1 I66 v.44 &
NODC (Partial copy)

350133

International Council for the Exploration of the

350193 - Continued

Sea. "Rapports et Proces-Verbaux des Reunions."
Copenhagen, 1929.

vol. LXII

ARRAS
JENTINELLE
TANCHE
PETREL

1928: 15 May
1928: 13 Mar.-31 May
1928: 15 Jul.-19 Aug.
1928: 10-13 Jul.

103
DNO GC1 166 v.62 & NODC
(Partial copy)

350194

International Council for the Exploration of the
Sea. "Rapports et Proces-Verbaux des Reunions;
Rapport Atlantique." 1935.

vol. XCIII

PRESIDENT THEODORE TISSIER 1933: 24 Nov. to
PRESIDENT THEODORE TISSIER 1934: 3 Jan.
ARDENT 1933: 24 Jun.-07 Jul.

90

NODC Files

350269

Comite d'Océanographie et d'Etude des Cotes
(COEC). "Cahiers Oceanographiques." 1951.

III Annee no.3

AVENTURE
LA PLACE
HERMOZ

1948: 21 Jul.-11 Oct.
1950: 19 Feb.-14 Jun.
1950: 12 Sep.-03 Oct.

47

NODC Files

350294

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1950.

Annee 1947

BERCEUSE

1947: 28 Aug.-06 Sep.

5

NODC Files

35-295

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1952.

Annee 1948

AILETTE
AVENTURE

1948:
1948:
PRESIDENT THEODORE TISSIER 1948:

321

NODC Files

35-350

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1944.

Annees 1938 & 1939

AILETTE
QUENTIN ROOSEVELT
VILLE D'YS

1938: 13 Apr.-17 Jun.
1938: 06 Apr.-30 Oct.
1938: 29 Jun.-16 Jul.

86

NODC Files

350433

Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1954.

VI Annee no.1

ELIE MONNIER

1952: 13-16 Sep.

14

DNO GC1 COEC v.VI no.1

35-534

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.

Annee 1949

AILETTE

1949: 05 Apr.-16 Sep.

OWS K

1949: 25 Aug.-26 Dec.

OWS L

1949: 05 Jan.-21 May

NOT GIVEN

1949: 15-22 Dec.

67

NODC Files

35-535

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.

Annee 1950

PRESIDENT THEODORE TISSIER

1950: 11 Jan.-22 Jul.

AILETTE

1950: 14 Mar.-19 Oct.

AVENTURE

1950: 12 May

NOT GIVEN

1950: 11 Aug.-09 Sep.

NOT GIVEN

1950: 28 Feb.-23 Nov.

601

NODC Files

350537

Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques."

VII Annee no.10

ORSOM II

1953: 30 Sep.-11 Oct.

21

DNO GC1 COEC v.VII no.10

350578

Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1958.

X Annee no.1

AVENTURE

1956: 20 Mar.-22 Oct.

38

DNO GC1 COEC v.X no.1

350579

Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1957.

IX Annee no.1 & 8-10

ELIE MONNIER

1955: 03 Mar.-29 Nov.

ELIE MONNIER

1956: 21-30 Sep.

ALIDADE

1955: 29 May

LA PEROUSE

1956: 22 Jan.-16 Mar.

MEMOZ

1957: 25-30 May

LE VERRIER

1957: 16-17 Apr.

53

DNO GC1 COEC v.IX

no.8-10

350699

Comite d'Océanographie et d'Etude des Cotes (COEC).

350699 - Continued

"Cahiers Oceanographiques." 1961.

XIII Année no.3

LE VERRIER 1956: to
LE VERRIER 1957: to
LE VERRIER 1958:
MERMOZ 1956: to
MERMOZ 1957: to
MERMOZ 1958:
COMMANDANT DUBOC 1956: 09 May-30 Jan.

39 DNO GC1 COEC v.XIII no.3

35-700

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Année 1951

AILETTE 1951: 16 May
AVENTURE 1951: 09 Apr.-06 Sep.
PRESIDENT THEODORE TISSIER 1951: 26 Jan.-02 Oct.
NOT GIVEN 1951: 29 Oct.

871

DNC GC1 162 1951

35-701

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1953.

Année 1952

AVENTURE 1952: 07 Apr.-01 Oct.
PRESIDENT THEODORE TISSIER 1952: 30 Apr.-05 Oct.

347

DNO GC1 162 1952

350703

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1958.

X Année no.6

MERMOZ 1957: 20 Aug.-4 Dec.
LE VERRIER 1957: 13-23 Sep.

8

DNO GC1 COEC v.X no.6

350705

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1959.

XI Année no.5

CALYPSO

1955: 11 Jul.-26 Aug.

117

DNO GC1 COEC v.XI no.5

350706

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1959.

XI Année no.6

CALYPSO

1956: 21 Sep.-23 Oct.

72

DNO GC1 COEC v.XI no.6

350707

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1952.

IV Année no.3

350707 - Continued

MAMELUCK
MAMELUCK

1949: 15 Dec. to
1950: 23 Jun.

DNO GC1 COEC v.IV no.2

93

350708

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1952.

IV Annee no.3

AVENTURE
BRIX
MERMOZ
LA PEROUSE
LA PEROUSE

1951: 09 Apr.-06 Sep.
1951: 03 Apr.-07 Aug.
1951: 14 Feb.-30 Oct.
1950: 23 Oct.-21 Nov.
1951: 08 Mar.-29 Sep.

109

DNO GC1 COEC v.IV no.3

350712

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1951.

III Annee no.10

COMMANDANT CHARCOT
COMMANDANT CHARCOT

1949: 25 Apr.-12 May
1950: 04 Jan.-22 May

32

DNO GC1 COEC v.III no.10

350713

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1956.

VIII Annee no.5

AMIRAL MOUCHEZ

1954: 29 Apr.-09 Jul.

350713 - Continued

19

DNO GC1 COEC v.VIII no.5

350714

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1956.

VIII Annee no.9

ELIE MONNIER
ELIE MONNIER

1953: 21-24 Dec.
1954: 23-26 Mar.

24

DNO GC1 COEC v.VIII no.9

350715

Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1956.

VIII Annee no.1G

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1955: 18 Jun.-02 Nov.

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1953: 15 Apr.-26 Sep.
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1953: 20-24 Feb.
1953: 30 Apr.-16 Jun.

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1957: 15-27 Oct.
DNO GC1 COEC v.XI no.1

350774
Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1961.
XIII Année no.4
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1958: 18-20 Apr.
1958: to
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Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1959.
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1958: 11 Feb.
1957: 08-15 Jul.
1956: 06-22 Dec.
1957: 20 Jan.
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Comite d'Océanographie et d'Etude des Cotes (COEC). "Cahiers Oceanographiques." 1959.
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1955: 01-10 Mar.
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1958:

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 LEON COURSIN
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 62
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1957: to
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 Comite d'Océanographie et d'Etude des Cotes (COEC).
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X Annee no.10

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1957: 21 Aug.-22 Oct.
 1958: 03 Jan.-27 Jun.

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 Comite d'Océanographie et d'Etude des Cotes (COEC).
 "Cahiers Oceanographiques." 1959.

XI Annee no.3

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1957: 08-22 Aug.

35-824
 International Council for the Exploration of the
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35-824 - Continued

Annee 1954

AILETTE
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1954: 18 Mar.-28 Dec.
 1954: 21 Apr.-08 Sep.
 1954: 11 Mar.-30 Aug.
 1954: 30 Apr.-07 Jul.

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 Comite d'Océanographie et d'Etude des Cotes (COEC).
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1955: 08-18 Nov.
 1956: 24 Feb.-01 Mar.

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35-846

International Council for the Exploration of the
 Sea. "Bulletin Hydrographique." Copenhagen, 1960.

Annee 1955

AILETTE
 ELIE MONNIER
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1955: 17 Mar.-29 Nov.
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 1955: 21 Feb.-10 Oct.
 1955: 17 Mar.-15 Dec.

350870
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XIII Annee no.5 & XVI annee no.8

350870 - Continued

1959: 06 Aug.-01 Dec.

LEON COURSIN

1958: 02-22 Nov.

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"CRUISE 9"
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1958: 07-20 Aug.

XIII Annee no.6

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1958: 13-18 Oct.
1959: 03-15 Feb.

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XII Annee no.10

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"CRUISE 6"

1959: 28 Jan.-22 Apr.

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DNO GC1 COEC v.XII no.10

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CALYPSO
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1958: 02-8 Mar.
1958: 06 Jul.-20 Aug.
1957: 14 May to
1958: 27 Dec.

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"Cahiers Oceanographiques." 1961.

DNO GC1 COEC v.XII no.6

XIII Annee no.1

1959: 30 May-16 Jun.

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"Cahiers Oceanographiques." 1960.

OMBANGO
"CRUISE 7"

DNO GC1 COEC v.XIII no.1

XII Annee no.7

350877
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AVENTURE	1959: 24 Oct.-02 Nov.	X Année no.2	
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XII Année no.2		XII Année no.5	
AVENTURE	1958: 28 Aug.-24 Oct.	LEON COURSIN	1958: 17 Jan.-20 Feb.
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CALYPSO	1957: 19 Jul.-28 Sep.	LA PEROUSE	1957: 25 Jan.-18 Mar.
82	DNO GC1 COEC v.XII no.3	AMIRAL MOUCHEZ	1959: 21 Apr.-06 Aug.
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35	DNO GC1 COEC v.XII no.4	STATION ZOOLOGIQUES (A&B)	1959: 27 Jan. to

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50 DNO GC1 COEC v.XIII no.9

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Publication (2v.)

PASSEUR DU PRINTEMPS 1957: 21 Jul.-25 Aug.

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58 NODC Files

35 952 Comite d'Océanographie et d'Etude des Cotes (COEC).
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XII Annee no.8

LOTUS 1957: 20 Sep.-08 Oct.

LOTUS 1958: 27 Mar.-05 Oct.

49 DNO GC1 COEC v.XII no.8

350953 Comite d'Océanographie et d'Etude des Cotes (COEC).
"Cahiers Oceanographiques." 1962.

XIV Annee no.1

OMBARGO 1960: 18 Feb.-03 Apr.

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350953 - Continued

84 DNO GC1 COEC v.XIV no.1

350999 International Council for the Exploration of the
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Annee 1956

PRESIDENT THEODORE TISSIER 1956: 09 May-17 Aug.
CALYPSO 1956: 19 May-06 Aug.
AILETTE 1956: 26 Jun.-29 Jul.
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470 NODC Files

360428 Akademia Athenon, Hellenic Hydrobiological
Institute. "Praktika." 1947.

vol. 1, no.1

GLAFKI 1946: 22 May-19 Oct.

96 DNO QH91 A867 v.1 no.1

360429 Akademia Athenon, Hellenic Hydrobiological
Institute. "Praktika." 1949.

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GLAFKI 1947: 30 Apr.-18 Nov.
ALKYONI 1949: 08 Jul.-21 Sep.

135 DNO QH91 A867 v.3 no.1

41-001 Council of Scientific and Industrial Research,

41-001 - Continued

National Institute of Oceanography.

NODC Coding Forms

KISTNA

"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

"CRUISE 1"

"CRUISE 2"

"CRUISE 3"

1962: 24 Sep.-05 Dec.

101

NODC Files

41-002

Council of Scientific and Industrial Research,
National Institute of Oceanography.

NODC Coding Forms

KISTNA

"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

"CRUISE 4"

"CRUISE 5"

"CRUISE 6"

"CRUISE 7"

1963: 18 Jan.-18 Mar.

89

NODC Files

41-003

Central Marine Fisheries Institute

NODC Coding Forms

VARUNA

"INTERNATIONAL INDIAN
OCEAN EXPEDITION
"CRUISE 80-V-17"

1962: 15 Sep.-05 Oct.

41-003 - Continued

"CRUISE 81-V-18"

22

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A-1 & A-2

41-004

Central Marine Fisheries Institute.

NODC Coding Forms

VARUNA

"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

"CRUISE 81-V-18"

1962: 05-16 Oct.

17

WDC-A Files 119.3 A-2

41-005

Central Marine Fisheries Institute.

NODC Coding Forms

VARUNA

"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

"CRUISE 82-V-19"

"CRUISE 83-V-19"

"CRUISE 83-V-20"

"CRUISE 84-V-21"

1962: 13 Nov.-16 Dec.

74

WDC-A Files 119.3 A-4

41-006

Central Marine Fisheries Institute.

NODC Coding Forms

VARUNA

1963: 06 Jan.-12 Dec.

41-006 - Continued

"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"CRUISE 85-V-22"
"CRUISE 104-V-41"
"CRUISE 106-V-43"

40

WDC-A Files 119.3 A-5

41-007

National Institute of Oceanography.

NODC Coding Forms

KISTNA
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"CRUISE 8"
"CRUISE 9"

31

NODC Files

41-008

National Institute of Oceanography.

NODC Coding Forms

KISTNA
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
"CRUISE 10"
"CRUISE 11"
"CRUISE 12"
"CRUISE 13"
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SIBOELA

1949: 13 Aug.-15 Sep.

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Institute of Marine Research, Djakarta. "Surface Salinities in the Strait of Malacca." 1956.

Marine Research in Indonesia, no.2

SAMUDERA

1956: 15 Jan.-02 Jul.

34

NODC Files

420795

Institute of Marine Research, Djakarta. "Oceanographic Station List." 1957 & 1959.

Marine Research in Indonesia, no.3 & no.4

SAMUDERA

1957: 21 Feb.-08 Nov.

104

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& A-2

420796

Institute of Marine Research, Djakarta.

NODC Coding Forms

JALANIDHI

1963: 06 Jun.-29 Sep.

420796 - Continued

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OCEAN EXPEDITION"

"CRUISE 1"
"CRUISE 2"
"CRUISE 3"
"CRUISE 4"

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B-2 & B-3 & B-4

450025

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1917.

Annees 1914 to 1915

NOT GIVEN

1914: Aug.

17

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450027

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1933-35.

Annees 1932 to 1934 (3 v.)

MUIRCHU
MUIRCHU
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1932: 02 Feb. to
1933: to
1934: Nov.

249

NODC Files

450028

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1936-39.

450028 - Continued

Annees 1935 to 1937 (3 v.)

MUIRCHU
MUIRCHU
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1935: Feb.-Aug.
1936: Mar.-Aug.
1937: Feb.-Aug.

99

NODC Files

45-048

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1950.

Annees 1940 to 1946, with appendix for 1939

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1939: Feb.-Apr.

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450140

International Council for the Exploration of the
Sea. "Rapports et Proces-Verbaux des Reunions."
Copenhagen, 1925.

vol. XXXVII

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1924: Mar.-Nov.

48

DNO GC1 166 v.37

450141

International Council for the Exploration of the
Sea. "Rapports et Proces-Verbaux des Reunions."
Copenhagen, 1932.

vol. LXXVII

MUIRCHU

1929: Nov. 30

450149 - Continued

vol. XLIV

MUIRCHU

1926: Feb.-Aug.

35

DNO GC1 .06 v.44

450193

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1929.

vol. LXII

MUIRCHU

1928: Apr.-Nov.

56

DNO GC1 I66 v.62

45-350

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

Annees 1938 to 1939

MUIRCHU

1938: Apr.-Aug.

32

NODC Files

45-002

Atvinnudeild Haskolans, Reykjavik.

Punched Cards

MARIA JULIA

1960: 30 May-18 Jun.

AEGR

1960: Feb. to

AEGR

1961: Sep.

559

NODC Files

460027

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1935

Annee 1934

THOR (Icel.)

1934: 10 Aug.-22 Nov.

12

NODC Files

460028

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.

Annees 1935 to 1937 (3 v.)

AEGR

1935: Feb.-Nov.

AEGR

1936: Nov.

AEGR

1937: Sep.-Nov.

THOR (Icel.)

1935: May

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1936: Aug.

THOR (Icel.)

1937: May-Jun.

51

NODC Files

46-031

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

Annees 1938-1939.

AEGR

1938: Jun.-Jul.

THOR (Icel.)

1938: Jun.-Jul.

46-031 - Continued

19	NODC Files	46-534	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.
46-294	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1950.	Annee 1949	1949: Jul.-Aug.
		NOT GIVEN	NODC Files
124		157	
46-295	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.	46-535	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.
		Annee 1950	
46-350	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.	NOT GIVEN	1950: Jan.-Aug.
		ALICE FREYMAN	
		NOT GIVEN	NODC Files
557		138	
46-350	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.	46-700	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.
		Annee 1951	
		FAXABORG	1951: Jul.-Aug.
		MARIA JULIA	1951: Apr.-Aug.
		295	DNO GC1 162 1951
		1938: Feb.-Sep.	
		1939: Apr.-May	
		NODC Files	
18		46-701	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1953.

46-701 - Continued

Annee 1952
 MARIA JULIA
 56
 1952: Apr.-Jun.
 DNO GC1 I62 1952
 46-720
 International Council for the Exploration of the
 Sea. "Bulletin Hydrographique." Copenhagen,
 1957.
 Annee 1953
 MARIA JULIA
 NOT GIVEN
 1953: Feb.-Sep.
 1953: Feb.-Jul.
 199
 NODC Files
 46-824
 International Council for the Exploration of the
 Sea. "Bulletin Hydrographique." Copenhagen,
 1959.
 Annee 1954
 AEGIR
 MARIA JULIA
 182
 1954: Jun.-Oct.
 1954: Jun.-Nov.
 NODC Files
 46-846
 International Council for the Exploration of the
 Sea. "Bulletin Hydrographique." Copenhagen,
 1960.
 Annee 1955
 AEGIR
 1955: Jun.-Aug.

46-846 - Continued

MARIA JULIA
 77
 1955: May-Jul.
 NODC Files
 460905
 Atvinnudeild Haskolans, Reykjavik.
 Tabular Data
 AEGIR
 AEGIR
 373
 1957: 11 Apr.-01 Dec.
 1958: 19 May-20 Dec.
 NODC Files
 46-999
 International Council for the Exploration of the
 Sea. "Bulletin Hydrographique." Copenhagen,
 1962.
 Annee 1956
 AEGIR
 89
 1956: May-Aug.
 NODC Files
 47-001
 Sea Fisheries Research Station, Haifa.
 NODC Coding Forms
 MEVOOT YAM
 "CYPRUS-CO-2"
 18
 1963: 21 Jul.-01 Aug.
 NODC Files
 47-002
 Sea Fisheries Research Station, Haifa.

47-002 - Continued

NODC Coding Forms

MEVOOT YAM
"CRUISE CO-3"

37

NODC Files

49-001 Istituto Sperimentale Talassografico, Trieste.

Tabular Data

FARFALLA
"CRUISE 1"
SCIMITARRA
"CRUISE 2"

112

NODC Files

48-002 Istituto Sperimentale Talassografico, Trieste.

Tabular Data

POMONA
"CRUISE 1"
"CRUISE 2"

84

NODC Files

48-003 Istituto Sperimentale Talassografico, Trieste.

Tabular Data

GAZZELLA
"CRUISE 3"

48-003 - Continued

67

NODC Files

1954: 30 Jul.-14 Aug.

48-004 Istituto Sperimentale Talassografico, Trieste.

Tabular Data

SIBILLA
"CRUISE 5"

1958: 25 Aug.-03 Sep.

58

WDC-A Files 123.2 C2

1959: 23 Apr.-05 May

48-005 Istituto Sperimentale Talassografico, Trieste.

1959: 25 Jul.-05 Aug.

Tabular Data

URANIA
"CRUISE 3"
"CRUISE 4"

1958: 26 Jan.-01 May

91

WDC-A Files 123.1
B-1 & B-2

1957: 07 Jul.-25 Sep.

48-006 Istituto Universitario Navale, Napoli.

Tabular Data

CORMORANO
"IGY 1957/58"

1957: 17-25 Sep.

44

NODC Files

1960: 26 Feb.-26 Mar.

48-007 Istituto Universitario Navale, Napoli.

Tabular Data

48-007 - Continued

SCIMITARRA "CRUISE 2" "IGY 1957/58"	1958: 21 Apr.-02 May	48-011 Centro Talassografico Tirreno, Genova.
32 NODC Files		NODC Coding Forms 1957: 01-12 Jul.
48-008 Centro Talassografico Tirreno, Genova.		46 NODC Files
Tabular Data		
DRIADE "IGY 1957/58"	1958: 26 Jan.-06 Feb.	48-012 Centro Talassografico Tirreno, Genova.
42 NODC Files		NODC Coding Forms
48-009 Istituto Universitario Navale, Napoli.		SIBILLA "IGY 1957/58" 1958: 21 Apr.-01 May
Tabular Data		46 NODC Files
BAIONETTA "CRUISE 5" "IGY 1957/58"	1958: 25 Aug.-02 Sep.	48-013 Centro Talassografico Tirreno, Genova.
41 NODC Files		NODC Coding Forms
48-010 Istituto Universitario Navale, Napoli.		DANAIDE "IGY 1957/58" "CRUISE 3" 1958: 26 Jan.-02 Feb.
Tabular Data		47 NODC Files
SCIMITARRA "CRUISE 1" "IGY 1957/58"	1957: 01-10 Jul.	48-014 Centro Talassografico Tirreno, Genova.
40 NODC Files		NODC Coding Forms
		FLORA "IGY 1957/58" 1957: 17-25 Sep.

48-014 - Continued
"CRUISE 2"

47 NODC Files

48-029 Centro Talassografico Tirreno, Genova.
NODC Coding Forms

SCIMITARRA
"IGY 1957/58"

45 NODC Files

48-030 Istituto Sperimentale Talassografico, Trieste.
NODC Coding Forms

BANNOCK
"CANALE DI SARDEGNA"

23 NODC Files

48-032 Istituto Sperimentale Talassografico, Trieste.
NODC Coding Forms

BANNOCK
"BONIFACE"

81 NODC Files

480254 Commissione Internazionale de Mediterraneo.
"Crociere per lo Studio dei Fenomeni nello
Stretto di Messina." Venice, 1926.

480254 - Continued
Publication

MARSIGLI 1922: Aug.-Nov.
MARSIGLI 1923: Mar.-Jun.
MARIO BLANCO 1924: Jun.-Sep.
439 DLC GC685. M4V4 pt.2

480257 Comitato Talassografico Italiano. "Ricerche
Italiane." 1912, 1913, 1914.
fasc. I to III

CICLOPE 1911: Feb.-Aug.
CICLOPE 1912: Aug.-Dec.
CICLOPE 1913: Feb.-Nov.
CICLOPE 1914: Feb.-Mar.
579 DNO GC1 A243

480624 Centro Talassografico Tirreno, Genoa. "Risultati
delle Crociere Talassografiche nel Mar Ligure
e nell'Alto Tirreno." 1953.
Pubblicazione no.14

PRINCESSE ALICE 1950: 04-08 Oct.
PRINCESSE ALICE 1951: 16-23 May
PRINCESSE ALICE 1951: 15-19 Dec.
PRINCESSE ALICE 1952: 15-20 Mar.
79 DNO GC651 C3 no.14

48-824 International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen, 1959.

48-824 - Continued

Annee 1954

NOT GIVEN

158

NODC Files

1954: Jul.-Sep.

480833

Istituto Idrografico, Genova. "Annali Idrografici." 1930.

vol. 2

AMIRAGLIO MAGNAGHI
AMIRAGLIO MAGNAGHI

1923: 2 Oct. to
1924: 3 Jun.

318

DNO VK598 Italy vol.2

48-846

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1960.

Annee 1955

NOT GIVEN

46

1955: Jan.-Dec.

NODC Files

490001

Maritime Safety Agency. "Oceanographic Bulletin." 1948.

vol. 3, Publication 791

KOSYU MARU
KOSYU MARU
KOSYU MARU
MATUE
MATUE

1927: Mar.-Sep.
1928: Apr.-Sep.
1929: Mar.-Oct.
1923: Apr.-Jul.
1924: Apr.-Oct.

490001 - Continued

MANSYU
MANSYU
MANSYU
YODO
YODO

1928: Sep.-Dec.
1929: May-Sep.
1930: Jan.-Mar.
1927: Nov.
1928: Apr.-Sep.

504

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490002

Maritime Safety Agency. "Oceanographic Bulletin." 1949.

vol. 5, Publication 791

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KOSYU MARU
MANSYU

1930: Apr.-Sep.
1931: Jan.-Mar.
1930: Jun.-Sep.

146

DNO Periodicals

490003

Maritime Safety Agency. "Hydrographic Bulletin." 1950.

Special 6, Publication 981

KOSYU MARU
KOSYU MARU
KOSYU MARU
KOSYU MARU
KOMAHASI
KOMAHASI
KOMAHASI
KOMAHASI
KOMAHASI
YAMATO
YAMATO

1931: Apr.-Oct.
1932: Apr.-May
1933: Apr.-Oct.
1934: Jun.-Dec.
1935: Jan.-Feb.
1931: Jun.-Sep.
1932: Jan.-Apr.
1933: Jan.-Dec.
1934: Jan.-Dec.
1935: Jan.-Mar.
1932: Jun.
1933: Jul.-Aug.

490003 - Continued

YAMATO
1297
1934: Apr.-Sep.
DNO Periodicals

490004

Maritime Safety Agency. "Hydrographic
Bulletin." 1948.

Special 8, Publication 981

KATURIKI
KATURIKI
KATURIKI
KOMAHASI
KOMAHASI
KOMAHASI
KOSYU MARU
KOSYU MARU
KOSYU MARU
ITU KUSIMA
1935: Nov.-Dec.
1936: Jan.-Dec.
1937: Jan.-Aug.
1938: Jan.-Feb.
1935: May-Dec.
1936: Jan.-Nov.
1937: Apr.-Aug.
1935: May-Oct.
1936: Apr.-Dec.
1937: Jan.-Oct.
1935: Jul.-Aug.

1517

DNO Periodicals

490005

Maritime Safety Agency. "Hydrographic
Bulletin." 1949.

Special 9, Publication 981

KOMAHASI
KOMAHASI
KOMAHASI
KOMAHASI
KOSYU MARU
OTOMARI
OTOMARI
KATURIKI
1938: Oct.-Dec.
1939: Jan.-Nov.
1940: Feb.-Dec.
1941: Mar.-Nov.
1938: Apr.-Aug.
1938: Feb.-May
1939: Feb.-Mar.
1940: Jun.-Dec.

490005 - Continued

KATURIKI
1828
1941: Jul.
DNO Periodicals

490006

Maritime Safety Agency. "Hydrographic
Bulletin." 1954.

Special 13, Publication 981

SOYO MARU
TAMA MARU
TAMA MARU 2
TAMA MARU 3
TAMA MARU 3
TAMA MARU 5
TAMA MARU 6
MYOGA MARU
KATHO MARU
HAKUYO MARU
KAIYO MARU 1
KAIYO MARU 1
KAIYO MARU 2
KYO MARU 6
KYO MARU 7
KYO MARU 8
KYO MARU 10
TOSI MARU 2
TOSI MARU 7
TAKUNAN MARU 10
TAKUNAN MARU 8
TAKUNAN MARU 1
TAKUNAN MARU 2
TAKUNAN MARU 3
1938: May-Jul.
1938: Aug.
1938: Aug.
1938: Aug.
1939: Jul.-Aug.
1938: Aug.-Sep.
1938: Aug.
1938: Sep.-Oct.
1939: Feb.
1939: Feb.
1939: Nov.-Dec.
1940: Jan.-Mar.
1940: Jan.-Mar.
1939: Jul.-Aug.
1939: Jun.-Aug.
1939: Jul.-Aug.
1939: Jul.-Aug.
1939: Jul.-Aug.
1939: Jul.-Aug.
1939: Jul.-Aug.
1939: Jul.-Sep.
1939: Jul.-Sep.
1939: Jul.-Aug.
1939: Jul.-Aug.

1438

DNO Periodicals

490008 - Continued

490007	Maritime Safety Agency. "Hydrographic Bulletin." 1955.		
	Special 16, Publication 981		
	TAMA MARU 5	1939: Jul.-Aug.	
	TAMA MARU 7	1939: Jul.-Aug.	
	SOYO MARU	1939: Jun.-Aug.	
	KYO MARU 6	1939: Jun.-Jul.	
	OSHO MARU	1939: Jul.-Sep.	
	IWAKI MARU	1939: Aug.	
	IWATE MARU	1939: Aug.	
	MIYAGI MARU	1940: Aug.	
	SHUNKOTU MARU	1940: Jan.-Feb.	
	KAIYO MARU 1	1940: Apr.-Dec.	
	KAIYO MARU 2	1940: Apr.-Dec.	
	KAIYO MARU 2	1941: Jan.-Mar.	
1529		DNO Periodicals	
490008	Maritime Safety Agency. "Hydrographic Bulletin." 1962.		
	vol. 69, Publication 981		
	HUSA MARU	1931: Aug.	
	HUSA MARU	1940: Aug.	
	KOSYU MARU	1938: Feb.	
	KAIHO MARU	1938: Feb.	
	KAIHO MARU	1940: Jan.-Feb.	
	KATURIKI	1938: Jun.-Jul.	
	TANKAI MARU	1939: Aug.	
	TANKAI MARU	1940: Aug.	
	ACMOKI MARU	1939: Aug.	
	IBARAGI MARU	1939: Aug.	
	HUSA MARU	1939: Aug.	
	SAGAMI MARU	1939: Aug.	
	SIRATORI MARU	1939: Aug.	
	KAMO MARU	1939: Aug.	
	KIYO	1939: Aug.	
	KOTI MARU	1939: Aug.	
	HYUGA MARU	1939: Aug.	
	TONAN MARU	1939: Aug.	
	SHONAN MARU	1939: Aug.	
	SUIHO	1939: Aug.	
	SHONAN MARU 1	1940: Jul.-Aug.	
	SHONAN MARU 6	1940: Jul.-Aug.	
	KOMAHASHI	1939: Sep.	
	IWATE MARU	1940: Aug.	
	MIYAGI MARU	1940: Aug.	
	MIYAGI MARU	1941: Jan.	
	ISIKAZI	1940: Aug.	
	SOYO MARU	1940: Apr.-Sep.	
	IBARAGI MARU	1940: Aug.	
	TAKUNAN MARU 3	1940: Jul.-Aug.	
	TAKUNAN MARU 5	1940: Jul.-Aug.	
	KYO MARU 8	1940: Jul.-Aug.	
	KAIYO MARU 1	1940: Jul.-Aug.	
	KAIYO MARU 2	1940: Jul.-Aug.	
	TOSI MARU	1940: Jul.-Aug.	
	TAMA MARU	1940: Jul.-Aug.	
	TAMA MARU 6	1940: Jul.-Aug.	
	HAKUYO MARU	1940: Nov.-Dec.	
	HAKUYO MARU	1941: Jan.	
	1713	NODC Files	
490009	Maritime Safety Agency. "Hydrographic Bulletin." 1962.		
	vol. 71, Publication 981		
	SHUNKOTU MARU	1941: Jan.	

490009 - Continued

KAIHO MARU
 SIRATORI MARU
 KAIYO MARU 1
 KAIYC MARU 2
 KOTI MARU
 SAGAMI MARU
 KIYO
 HYUGA MARU
 FUSA MARU
 SOYO MARU
 TOYAMA MARU
 TOSI MARU 2
 TOSI MARU 5
 TOSI MARU 7
 SHONAN MARU 6
 SHONAN MARU 3
 SHONAN MARU 7
 SHONAN MARU 8
 TAMA MARU 2
 YOKO MARU
 HAKUYO MARU
 TOYAMA MARU
 SANYO MARU
 TANKAI MARU

1941: Jan.-Sep.
 1941: Feb.
 1941: Jan.
 1941: Apr.-Oct.
 1941: Feb.
 1941: Feb.
 1941: Feb.
 1941: Feb.
 1941: Feb.-Mar.
 1941: Apr.-May
 1941: May-Jul.
 1941: Jun.
 1941: May-Jul.
 1941: Jun.
 1941: Apr.-Nov.
 1941: Aug.-Oct.
 1941: Aug.-Oct.
 1941: Dec.
 1941: Nov.

1801

NODC Files

490010

Maritime Safety Agency. "Hydrographic
 Bulletin." 1963.

vol. 74, Publication 981

SANYO MARU
 IWAKI MARU
 YOKU MARU
 TOYAMA MARU
 TOYAMA MARU

1942: Jan.-Dec.
 1942: Jan.-Dec.
 1942: Mar.-May
 1942: Mar.-Dec.
 1943: Jan.

490010 - Continued

RYOFU MARU
 KAIYO MARU 1
 KAIYO MARU 2
 KAIYO MARU 3
 KAIYO MARU 4
 SOYO MARU
 TANKAI MARU
 HAKUYO MARU
 HISHO
 KUROKAMI MARU
 GEIYO MARU
 KATASIMA MARU

1942: Jun.-Aug.
 1942: Mar.-Dec.
 1942: May-Dec.
 1942: Aug.-Oct.
 1942: Aug.-Oct.
 1942: Aug.
 1942: Aug.-Sep.
 1942: Oct.-Dec.
 1942: Oct.-Dec.
 1942: Aug.-Sep.
 1942: Aug.-Sep.
 1942: Sep.

1809

NODC Files

490021

Maritime Safety Agency. "Oceanographic
 Bulletin."

vol. 1, Publication 202

UNKNOWN

1946:

56

DNO Periodicals

490022

Maritime Safety Agency. "Oceanographic
 Bulletin." 1949.

vol. 4, Publication 791

KAIYO MARU 4
 TANKAI MARU 1

1946: Dec.
 1946: Dec.

9

DNO Periodicals

490023

Maritime Safety Agency. "Hydrographic

490023 - Continued

Bulletin." 1953.

Special 10, Publication 981

KAIYO MARU 4 1946: Jul.-Sep.
KAIYO MARU 4 1947: Jun.-Dec.
KAIYO MARU 4 1948: Mar.-Dec.
KAIYO MARU 5 1948: May-Nov.
TENKAI MARU i 1947: Sep.-Oct.

387 DNO Periodicals

490024 Maritime Safety Agency. "Oceanographic
bulletin." 1949.

vol. 5, Publication 791

KAIYO MARU 5 1947: 14-20 Dec.

63 NODC Files

490025 Maritime Safety Agency. "Hydrographic
Bulletin."

Special 5, Publication 981

KAIYO MARU 4 1948: 17 Jul.-20 Sep.

131 DNO Periodicals

490026 Maritime Safety Agency. "Hydrographic
Bulletin." 1949.

vol. 14, Publication 981

490026 - Continued

KAIYO MARU 4

1949: 11-18 May

28 DNO Periodicals

490027 Maritime Safety Agency. "Hydrographic
Bulletin." 1949.

vol. 15, Publication 981

KAIYO MARU 5 1949: 30 May-02 Jul.

37 DNO Periodicals

490028 Maritime Safety Agency. "Hydrographic
Bulletin." 1950.

vol. 16, Publication 981

KAIYO MARU 4 1949: 14 Jul.-04 Aug.

62 DNO Periodicals

490029 Maritime Safety Agency. "Hydrographic
Bulletin." 1950.

Special 7, Publication 981

TENKAI MARU 1949: Aug.
KAIYO MARU 4 1949: Aug.-Oct.
KAIYO MARU 5 1949: Oct.

124 DNO Periodicals

490030 Maritime Safety Agency. "Hydrographic

490030 - Continued

Bulletin." 1954.

Special 14, Publication 981

KAIYO MARU 4
KAIYO MARU 5
KAIKO MARU

1950: Mar.-Dec.
1950: Mar.-Sep.
1950: Aug.

508

DNO Periodicals

490031

Maritime Safety Agency. "Hydrographic
Bulletin." 1954.

Special 15, Publication 981

TENKAI MARU 1
KAIYO MARU 4
KAIYO MARU 5
SOEI MARU

1951: Feb.
1951: May-Jul.
1951: Feb.-Dec.
1951: Nov.

376

DNO Periodicals

490032

Maritime Safety Agency. "Hydrographic
Bulletin." 1956.

vol. 51, Publication 981

KAIYO MARU
KAIYO MARU
TENKAI MARU 1
TENKAI MARU 1
TUKARI
TUKARI
KIZI
ABUKUMA
UZURA

1952: Feb.-Oct.
1953: May-Oct.
1952: Nov.-Dec.
1953: May-Oct.
1952: Dec.
1953: Jul.-Nov.
1952: Mar.
1953: Jun.
1953: Aug.

490032 - Continued

KIGI

1953: Nev.

636

NODC Library

490033

Maritime Safety Agency. "Hydrographic
Bulletin." 1959.

vol. 58, Publication 981

MIOTIDORI
MEIYO MARU
MEIYO MARU
KAIYO MARU 4
KAIYO MARU 4
SHUNKOTU MARU
KAWATIDORI
KAWATIDORI
TENRYO
TENRYO
SHOYO MARU
SAWATIDORI
TENKAI MARU 1
MOGAMI
MOGAMI
TSUGARU
TSUGARU
SINANO
SINANO
KOYOSI MARU
MIURA
KUZURYU
KUZURYU
TONE
SATJMA
KISO
OKUSIRI
OYODO

1954: Mar.
1954: May-Dec.
1955: Feb.-Nov.
1954: Jun.-Nov.
1955: May-Nov.
1954: May-Jun.
1954: Aug.-Nov.
1955: Mar.
1954: Aug.-Sep.
1955: May
1954: Jan.-Nov.
1954: Mar.-Apr.
1954: May
1954: May
1955: Jul.-Sep.
1954: May
1955: Mar.-May
1954: May-Sep.
1955: May-Aug.
1954: Aug.-Sep.
1954: Aug.
1954: Oct.-Nov.
1955: Jul.-Aug.
1955: May-Oct.
1955: Aug.
1955: Mar.
1955: Aug.-Nov.
1955: Nov.

490033 - Continued

1501

NODC Library

490034

Maritime Safety Agency. "Hydrographic Bulletin." 1959.

vol. 62, Publication 981

KAIYO MARU 4 1956: Feb.-Nov.
 MEIYO MARU 1956: Feb.-Nov.
 TOME 1956: Feb.
 SATUMA 1956: Feb.-Aug.
 TSUGARU 1956: Feb.-May
 SINANO 1956: Feb.-May
 TENRYO 1956: Mar.-Nov.
 OKUSIRI 1956: Apr.-May
 SHUNKOTU MARU 1956: May
 KITAKAMI 1956: Aug.-Nov.
 OYODO 1956: Jun.
 ASATIDON 1956: Aug.
 KIJURU 1956: Aug.-Sep.
 KISO 1956: Aug.
 TENKAI MARU 1 1956: Nov.
 MOGAMI 1956: Aug.-Nov.
 MIURA 1956: Oct.-Nov.
 SADO 1956: Nov.

627

DNO Periodicals

490035

Maritime Safety Agency. "Hydrographic Bulletin." 1960.

vol. 64, Publication 981

MEIYO MARU 1957: May
 MIURA 1957: Mar.-Nov.
 MOGAMI 1957: May-Aug.

490035 - Continued

TAKUYO 1957: Aug.-Nov.
 KAIYO MARU 1957: Feb.-Nov.
 KAWATIDORI 1957: Aug.-Sep.
 KISO 1957: May
 SINANO 1957: Aug.
 SATUMA 1957: Feb.
 SADO 1957: Nov.
 NOTO 1957: Mar.
 GYODO 1957: Apr.-Aug.
 RISIRI 1957: Feb.-Nov.
 TSUGARU 1957: May-Aug.
 590 NODC Files

490036

Maritime Safety Agency. "Hydrographic Bulletin." 1961.

vol. 66, Publication 981

MEIYO MARU 1958: Mar.-Nov.
 MIURA 1958: Nov.
 MOGAMI 1958: Mar.
 TAKUYO 1958: Jan.-Nov.
 KAIYO MARU 1958: Mar.-Aug.
 KISO 1958: Aug.
 SINANO 1958: May
 SATUMA 1958: Jan.-Jul.
 SADO 1958: Nov.
 NOTO 1958: Mar.
 NAGARA 1958: Aug.
 OYODO 1958: Feb.-Nov.
 TSUGARU 1958: Mar.
 RISIRI 1958: Nov.
 TATUTA 1958: Dec.
 KUZURYU 1958: Jan.
 HUI 1958: Jun.-Aug.

490036 - Continued

789

NODC Files

490037

Maritime Safety Agency. "Hydrographic Bulletin." 1961.

vol. 68, Publication 981

MEIYO MARU

1959: Jun.-Aug.

MIURA

1959: Mar.

TAKUYO

1959: Mar.-Nov.

KISO

1959: May

SATUMA

1959: Mar.-Nov.

SORATI

1959: Dec.

SADO

1959: Mar.

RISIRI

1959: Mar.

ISIKARI

1959: May

TENRYO

1959: Nov.

KAIYO MARU

1939: Mar.-Nov.

471

NODC Files

49-038

Maritime Safety Agency. "Hydrographic Bulletin." 1964.

vol. 75, Publication 981

MEIYO MARU

1960: Mar.-Aug.

TAKUYO

1960: May-Aug.

KAIYO MARU 4

1960: Mar.-Dec.

KUZURYU

1960: Aug.

SINANO

1960: May-Sep.

SATUMA

1960: Jun.

"CRUISE 6006-7-2"

1960: Apr.-Oct.

SADO

1960: Nov.

NOTO

1960: May

NAGARA

49-038 - Continued

OYODO

1960: Mar.

"CRUISE 6003-7"

161

NODC Files

49-039

Maritime Safety Agency. "Hydrographic Bulletin." 1964.

vol. 77, Publication 981

MEIYO MARU

1961: Mar.-Oct.

MIURA

1961: Mar.-Jun.

"CRUISE 6103-8"

1961: Mar.-Oct.

"CRUISE 6105-8"

1961: Mar.-Jun.

REBUN

1961: Mar.-Nov.

TAKUYO

1961: May-Aug.

KUMA

1961: May-Dec.

KAIYO MARU

1961: May-Nov.

KAWATIDORI

1961: Jul.

KUZURYU

1961: Aug.

SINANO

1961: Apr.-May

"CRUISE 6105-9"

1961: Sep.

SATUMA

1961: Dec.

"CRUISE 6109-7-2"

1961: Nov.

SORATI

1961: 11-15 Mar.

HUZI

1961: 06-11 Nov.

NOTO

NODC Files

155

490301

Central Meteorological Observatory of Japan.

"Results of Marine Meteorological and Oceanographical Observations." 1950.

490301 - Continued

no.1

OYASHIO MARU
KUROSHIO MARU
YUSHIO MARU

1947: Jan.-Jun.
1947: Jan.-Jun.
1947: May-Jun.

165

DNO GC57 J3T6 no.1

490302

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1950.

no.2

KUROSHIO MARU
OSHORO MARU
RYOFU MARU
ASASHIO MARU
YUSHIO MARU
FUGEN MARU
TURU MARU
SHUMPURU MARU

1947: Jun.-Sep.
1947: Oct.-Nov.
1947: Aug.-Nov.
1947: Sep.
1947: Jul.
1947: Nov.
1947: Aug.
1947: Oct.

283

DNO GC57 J3T6 no.2

490303

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1951.

no.3

OSHORO MARU
OYASHIO MARU
OYASHIO MARU
KUROSHIO MARU
KUROSHIO MARU

1948: Apr.-May
1947: Oct.-Dec.
1948: Jan.-May
1947: Jun.-Dec.
1948: Jan.-Jun.

490303 - Continued

RYOFU MARU
UKURU MARU
CHIKUBA MARU
ASASHIO MARU
SHUMPURU MARU
HAMAEI MARU
ASANAGI MARU
KOSHI MARU

1948: Mar.-Jun.
1948: Apr.-Jun.
1948: Apr.-Jun.
1948: Feb.-May
1948: Jun.
1948: Apr.-Jun.
1948: Apr.
1948: Jun.

328

DNO GC57 J3T6 no.3

490304

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1951.

no.4

TAIHO MARU
OYASHIO MARU
KUROSHIO MARU
YUSHIO MARU
SHINNAN MARU
RYOFU MARU
CHIKUBA MARU
IKUNA MARU
ASASHIO MARU
SHUMPURU MARU
DAIKOKU MARU
ASANAGI MARU
UNRYO MARU

1948: Jul.-Sep.
1948: Jul.-Nov.
1948: Jul.-Nov.
1948: Aug.-Dec.
1948: Jun.-Dec.
1948: Jul.-Nov.
1948: Aug.-Oct.
1948: Oct.-Dec.
1948: Jun.-Jul.
1948: Dec.
1948: Jul.-Dec.
1948: Jul.-Dec.
1948: Sep.

501

DNO GC57 J3T6 no.4

490305

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1951.

490305 - Continued

no. 5

YUSHIO MARU
OYASHIO MARU
KUROSHIO MARU
IKUNA MARU
RYOFU MARU
SHINNAN MARU
CHIKUBA MARU
UKURU MARU
UKURU MARU
ASASHIO MARU
SHUMPU MARU
UMIKAZE MARU
DAIKOKU MARU
AKEBONO MARU
HATUTAKA MARU
ASAKAZE MARU
ASANAGI MARU

1949: Mar.
1949: Mar.-Jun.
1949: Jan.-May
1949: Jan.-Jun.
1949: Jan.-Jul.
1949: Jan.-May
1949: Mar.-Jul.
1948: Dec.
1949: Apr.-May
1949: Mar.-Jun.
1949: Mar.-Jun.
1949: Feb.-Jun.
1949: Jan.-Sep.
1949: Jan.
1949: Apr.
1949: Jan.-Jun.
1949: Apr.-May

728

DNO GC57 J3T6 no. 5

490306

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographic Observations." 1951.

no. 6

YUSHIO MARU
OYASHIO MARU
KUROSHIO MARU
SHINNAN MARU
CHIKUBA MARU
UKURU MARU
IKUNA MARU
RYOFU MARU
IKURU MARU

1949: Aug.-Nov.
1949: Jul.-Nov.
1949: Jul.-Dec.
1949: Jul.-Dec.
1949: Jul.-Nov.
1949: Aug.-Dec.
1949: Jul.-Oct.
1949: Sep.-Oct.
1949: Sep.-Oct.

490306 - Continued

SHUMPU MARU
UMIKAZE MARU
ASANAGI MARU

1949: Oct.-Dec.
1949: Jul.-Nov.
1949: Jul.

668

DNO GC57 J3T6 no. 6

490307

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographic Observations." 1952.

no. 7

YUSHIO MARU
OYASHIO MARU
IKUNA MARU
UKURU MARU
SHINNAN MARU
CHIKUBA MARU
RYOFU MARU
ASASHIO MARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU
ASANAGI MARU
KOSHI MARU

1950: Jan.-May
1950: Jan.-Jun.
1950: Jan.-May
1950: Jan.-Mar.
1950: Feb.-Jun.
1950: Feb.-Jun.
1950: Apr.-Jul.
1950: Feb.-May
1950: Jan.-Jun.
1950: Jan.-Jun.
1950: Jan.-Apr.
1950: Feb.-Jun.
1950: May-Jun.

673

DNO GC57 J3T6 no. 7

49-308

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographic Observations." 1952.

no. 8

YUSHIO MARU
OYASHIO MARU

1950: Jul.-Dec.
1950: Jul.

49-308 - Continued

KUROSHIO MARU
KOSHI MARU
UKURU MARU
UKURU MARU
IKUNA MARU
SHINNAN MARU
CHIKUBA MARU
RYOTU MARU
SHUMPU MARU
UMIKAZE MARU

1950: Jul.-Dec.
1950: Jul.-Oct.
1950: May-Dec.
1951: Jan.
1950: Jun.-Dec.
1950: Jul.-Dec.
1950: Jul.-Dec.
1950: Sep.-Dec.
1950: Jul.-Dec.
1950: Jul.-Aug.

DNO GC57 J3T6 no.8

1005

490309

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1952.

no.9

YUSHIO MARU
OYASHIO MARU
SHINNAN MARU
UKURU MARU
RYOFU MARU
IKUNA MARU
SHIGA MARU
ASASHIO MARU
CHIKUBA MARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU

1951: Mar.-May
1951: Jan.-Jun.
1951: Jan.-Apr.
1951: Jan.-Jul.
1951: Feb.-May
1951: Feb.-Jun.
1951: Jun.-Jul.
1951: Jan.-Jun.
1951: Jan.-Jun.
1951: Jan.-Jun.
1951: Jan.
1951: Jan.-Jun.

DNO GC57 J3T6 no.9

934

490310

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1952.

490310 - Continued

graphical Observations." 1952.

no.10

YUSHIO MARU
OYASHIO MARU
SHINNAN MARU
SHINNAN MARU
CHIKUBA MARU
SHIGU MARU
UKURU MARU
IKUNA MARU
RYOFU MARU
ASASHIO MARU
SHIGA MARU
SHUMPU MARU
UMIKAZE MARU
TURU MARU
KUROSHIO MARU

1951: Jul.-Dec.
1951: Jul.
1951: Jul.-Dec.
1952: Jan.
1951: Jul.-Dec.
1951: Aug.-Dec.
1951: Aug.-Dec.
1951: Jul.-Dec.
1951: Jul.-Dec.
1951: Jul.-Dec.
1951: Sep.-Oct.
1951: Jul.-Dec.
1951: Jul.-Dec.
1951: Jul.-Aug.
1951: Oct.-Nov.

DNO GC57 J3T6 no.10

925

490311

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1953.

no.11

YUSHIO MARU
OYASHIO MARU
OYASHIO MARU
RYOFU MARU
CHIKUBA MARU
SHINNAN MARU
UKURU MARU
IKUNA MARU
SHIGA MARU

1952: Mar.-Jun.
1951: Dec.
1952: Jan.-Jun.
1952: Jan.-Apr.
1952: Jan.-Jun.
1952: Feb.-Jun.
1952: Jan.-Jun.
1952: Mar.-May
1952: Feb.-Jul.

490311 - Continued

ASASHIO MARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU
SETTSU MARU
1169
DNO GC57 J3T6 no.11

1952: Jan.-Jun.
1952: Jan.-Jun.
1952: Jan.-May
1952: Mar.-May
1952: Jan.-Mar.

490312

Central Meteorological Observatory of Japan.
"Results of Marine Meteorological and Oceanographical Observations." 1954.

no.12

YUSHIO MARU
OYASHIO MARU
CHIKUBA MARU
UKURU MARU
SHIGA MARU
RYOFU MARU
SHINNAN MARU
IKUNA MARU
IKUNA MARU
ASASHIO MARU
SHUMPU MARU
UMIKAZE MARU
TURU MARU
KUROSHIO MARU
1340
DNO GC57 J3T6 no.12

1952: Jul.-Oct.
1952: Jul.-Dec.
1952: Jul.-Dec.
1952: Aug.-Dec.
1952: Aug.-Oct.
1952: Jul.-Dec.
1952: Aug.-Dec.
1952: Jul.-Dec.
1952: Jan.
1952: Jul.-Nov.
1952: Jul.-Dec.
1952: Jun.-Dec.
1952: Jul.-Aug.
1952: Jul.-Dec.

490313

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1954.

no.13

490313 - Continued

YUSHIO MARU
SHIGA MARU
UKURU MARU
CHIKUBA MARU
SHINNAN MARU
IKUNA MARU
RYOFU MARU
ASASHIO MARU
SHUMPU MARU
UMIKAZE MARU
TURU MARU
NAGASAKI MARU
KUROSHIO MARU

1953: Feb.-Dec.
1953: Jan.-Oct.
1953: Jan.-Sep.
1953: Feb.-Nov.
1953: Feb.-Nov.
1953: Mar.-Nov.
1953: Mar.-Nov.
1953: Jul.
1953: Jan.-Dec.
1953: Jan.-Nov.
1953: Feb.-Mar.
1953: Aug.
1953: Jan.

1719

DNO GC57 J3T6 no.13

490314

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1955.

no.14

YUSHIO MARU
RYOFU MARU
ATSUMI
OJIKI
SHUMPU MARU
UMIKAZE MARU
NAGASAKI MARU
KUROSHIO MARU

1954: Feb.-Jun.
1954: Feb.-Jun.
1954: May-Jul.
1954: Jun.
1954: May-Jul.
1954: Jan.-Jun.
1954: Feb.-Mar.
1954: Jan.-Jun.

607

DNO GC57 J3T6 no.14

490315

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1955.

490315 - Continued

no. 15

YUSHIO MARU
RYOFU MARU
OJIKAI
TSUGARU
ATSUMI
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU
SEIFU MARU

1954: Jul.-Dec.
1954: Aug.-Nov.
1954: Jul.-Oct.
1954: Aug.
1954: Oct.
1954: Aug.-Oct.
1954: Aug.-Dec.
1954: Jul.-Dec.
1954: Jul.-Dec.

578

DNO GC57 J3T6 no.15

490316

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1955.

no. 16

YUSHIO MARU
RYOFU MARU
ATSUMI MARU
SATUMA MARU
SHUMPU MARU
KUROSHIO MARU
SEIFU MARU

1955: Feb.-Aug.
1955: Feb.-May
1955: May-Jul.
1955: Jun.
1955: Jan.-Feb.
1955: Jan.-Jun.
1955: Jan.-Jun.

700

DNO GC57 J3T6 no.16

490317

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1957.

no. 17

490317 - Continued

RYOFU MARU
YUSHIO MARU
SHUMPU MARU

1955: Aug.-Sep.
1955: Aug.-Sep.
1955: Jul.-Sep.

251

DNO GC57 J3T6 no.17

490318

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1956.

no. 18

YUSHIO MARU
RYOFU MARU
TSUGARU
OJIKAI
ATSUMI
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU
SEIFU MARU

1955: Nov.
1955: Nov.
1955: Jul.-Aug.
1955: Jul.-Aug.
1955: Sep.-Oct.
1955: Oct.-Nov.
1955: Sep.-Nov.
1955: Jul.-Dec.
1955: Aug.-Dec.

368

DNO GC57 J3T6 no.18

490319

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1957.

no. 19

YUSHIO MARU
RYOFU MARU
ASASHIO MARU
ATS II
SHUMPU MARU
UMIKAZE MARU

1956: Feb.-May
1956: Feb.-Jun.
1956: Mar.
1956: May-Jun.
1956: Jan.-Jul.
1956: Mar.-May

490319 - Continued

KUROSHIO MARU
SEIFU MARU

1956: Mar.-Jun.
1956: Feb.-Jun.

598

DNO GC57 J3T6 no.19

490320

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1957.

no.20

YUSHIO MARU
YASHIO MARU
RYOFU MARU
OJIKI
ATSUMI
TSUGARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU

1956: Jul.-Nov.
1956: Oct.-Nov.
1956: Aug.-Nov.
1956: Jul.-Aug.
1956: Jul.-Oct.
1956: Sep.-Oct.
1956: Aug.-Nov.
1956: Aug.-Nov.
1956: Jul.-Nov.

482

DNO GC57 J3T6 no.20

490321

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1958.

no.21

RYOFU MARU
YUSHIO MARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU
ATSUMI
OJIKI

1957: Feb.-Jul.
1957: Apr.-May
1957: Jan.-May
1957: Mar.-Jan.
1957: Jan.-Jun.
1957: Jun.
1957: May-Jul.

490321 - Continued

438

DNO GC57 J3T6 no.21

490322

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1958.

no.22

RYOFU MARU
YUSHIO MARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU
ATSUMI
OJIKI

1957: Aug.-Nov.
1957: Aug.-Nov.
1957: Jul.-Sep.
1957: Aug.-Nov.
1957: Jul.-Dec.
1957: Jul.-Nov.
1957: Jul.-Oct.

448

DNO GC57 J3T6 no.22

490323

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1959.

no.23

RYOFU MARU
YUSHIO MARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU
SEIFU MARU

1958: Feb.-May
1958: Apr.-Jul.
1958: Jan.-May
1958: May
1958: Jan.-May
1958: Mar.

414

DNO GC57 J3T6 no.23

490324

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical

490324 - Continued

Observations." 1959.

no. 24

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
UMIKAZE MARU
ASAKAZE MARU
KUROSHIO MARU
SEIFU MARU
ATSUMI
OJIKI

1958: Aug.-Sep.
1958: Jul.-Nov.
1958: Jun.-Nov.
1956: Aug.-Oct.
1958: Oct.
1958: Aug.-Dec.
1956: Sep.
1958: May-Aug.
1958: Jun.-Oct.

707

NODC Files

490325

Central Meteorological Observatory of Japan. "Re-
sults of Marine Meteorological and Oceanographical
Observations." 1960.

no. 25

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
KUROSHIO MARU
SEIFU MARU
MIURA

1959: Feb.-Jun.
1959: Jan.-Jul.
1959: Jan.-May
1959: Jan.-Jun.
1959: Mar.-Apr.
1959: Mar.

410

NODC Files

490326

Central Meteorological Observatory of Japan. "Re-
sults of Marine Meteorological and Oceanographical
Observations." 1960.

no. 26

490326 - Continued

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU

1959: Jul.-Dec.
1959: Aug.-Nov.
1959: Jun.-Nov.
1959: Jul.-Aug.
1959: Jul.-Dec.

494

NODC Files

490327

Central Meteorological Observatory of Japan. "Re-
sults of Marine Meteorological and Oceanographical
Observations." 1961.

no. 27

YUSHIO MARU
RYOFU MARU
"JEDS-3"
SHUMPU MARU
UMIKAZE MARU
KUROSHIO MARU

1960: Feb.-Jul.
1960: Feb.-May
1960: Jan.-May
1960: Apr.-May
1960: Jan.-Mar.

460

NODC Files

490328

Central Meteorological Observatory of Japan. "Re-
sults of Marine Meteorological and Oceanographical
Observations." 1962.

no. 28

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
CHOFU MARU
HEIAN MARU
KUROSHIO MARU

1960: Aug.-Nov.
1960: Aug.-Nov.
1960: Jul.-Sep.
1960: Oct.-Nov.
1960: Sep.-Nov.
1960: Jul.-Dec.

490328 - Continued

586

NODC Files

490329

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1962.

no.29

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
HEIAN MARU
KUROSHIO MARU
SHUMPU MARU

1961: Feb.-Jun.
1961: Feb.-Mar.
1961: Jun.
1961: Feb.
1961: Jan.-May
1961: Feb.-May

452

NODC Files

49-330

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1962.

no.30

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
CHOFU MARU
HEIAN MARU
KUROSHIO MARU

1961: Jul.-Dec.
1961: Aug.-Nov.
1961: Jul.-Nov.
1961: Jul.-Nov.
1961: Oct.
1961: Aug.-Dec.

638

NODC Files

49-331

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1964.

49-331 - Continued

no.31 and Punched Cards

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
CHOFU MARU
HEIAN MARU
KUROSHIO MARU

1962: Apr.-Jun.
1962: Feb.-Mar.
1962: Feb.-May
1962: Feb.-Jun.
1962: Feb.-Mar.
1962: Jan.-Apr.

364

NODC Files

49-332

Central Meteorological Observatory of Japan. "Results of Marine Meteorological and Oceanographical Observations." 1954.

no.32 and Punched Cards

YUSHIO MARU
RYOFU MARU
SHUMPU MARU
CHOFU MARU
HEIAN MARU
KUROSHIO MARU

1962: Aug.-Sep.
1952: Sep.
1962: Jul.-Nov.
1962: Aug.-Oct.
1962: Sep.-Oct.
1962: May-Nov.

447

NODC Files

490400

Hokkaido University, Faculty of Fisheries. "Oceanographic Observations and Exploratory Fishing." 1957.

Data Record, no.1

OSHO MARU
OSHO MARU
OSHO MARU
OSHO MARU

1953: May-Jun.
1954: May-Jun.
1955: Jan.-Feb.
1956: Jul.-Aug.

490400 - Continued

107 NODC Files

490401
Hokkaido University, Faculty of Fisheries.
"Oceanographic Observations and Exploratory Fishing." 1958.
Data Record, no.2
OSHORO MARU 1957: 19 Jun.-16 Jul.
HOKUSEI MARU 1957: 17 Jun.-15 Aug.

85 NODC Files

490402
Hokkaido University, Faculty of Fisheries.
"Oceanographic Observations and Exploratory Fishing." 1959.
Data Record, no.3
HOKUSEI MARU 1957: 27 Dec. to
"CRUISE 3"
HOKUSEI MARU 1958: 12 Feb.-26 Aug.
"CRUISE 3"
"CRUISE 4"

117 NODC Files

490403
Hokkaido University, Faculty of Fisheries.
"Oceanographic Observations and Exploratory Fishing." 1960.
Data Record, no.4
OSHORO MARU 1959: 08 Jun.-27 Jul.
"CRUISE 4"

490403 - Continued

HOKUSEI MARU 1959: 02 Jun.-25 Aug.
"CRUISE 6"

132 NODC Files

490404
Hokkaido University, Faculty of Fisheries.
"Oceanographic Observations and Exploratory Fishing." 1961.
Data Record, no.5
OSHORO MARU 1935: Sep.-Dec.
OSHORO MARU 1936: Jan.-Dec.
OSHORO MARU 1937: Jan.-Dec.
OSHORO MARU 1938: Jan.-Dec.
OSHORO MARU 1939: Jan.-Nov.
OSHORO MARU 1960: Jun.-Aug.
HOKUSEI MARU 1959: Nov.-Dec.
"CRUISE 7"
HOKUSEI MARU 1960: Jun.-Aug.
"CRUISE 8"

255 NODC Files

49-405
Hokkaido University, Faculty of Fisheries.
"Oceanographic Observations and Exploratory Fishing." 1962.
Data Record, no.6
OSHORO MARU 1961: 12 Jun.-26 Jul.
"CRUISE 48"
HOKUSEI MARU 1960: 24 Nov.-07 Dec.
"CRUISE 9"
HOKUSEI MARU 1961: 01 Jun.-04 Aug.
"CRUISE 10"

49-405 - Continued

130

NODC Files

49-406

Hokkaido University. Faculty of Fisheries.
"Oceanographic Observations and Exploratory
Fishing." 1963.

Data Record, no.7

OSHORO MARU

"CRUISE 50"

HOKUSEI MARU

"CRUISE 11"

"INTERNATIONAL INDIAN
OCEAN EXPEDITION."

HOKUSEI MARU

"CRUISE 12"

1962: 21 May-02 Jul.

1961: 14-27 Dec.

1962: 04 Jun.-24 Aug.

165

NODC Files

49-508

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographic Investigation."

Semi-Annual Report, no.52 and Punched Cards

UNKNOWN

1933: Jan.-Jun.

1280

NODC Files

49-510

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographic Investigation."

Semi-Annual Report, no.54 and Punched Cards

UNKNOWN

1934: Jan.-Jun.

49-510 - Continued

1256

NODC Files

49-511

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographic Investigation." 1935.

Semi-Annual Report, no.55

UNKNOWN

1934: Jul.-Dec.

2170

NODC Files

49-512

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographical Investigation." 1935.

Semi-Annual Report, no.56

UNKNOWN

1935: Jan.-Jun.

2489

NODC Files

49-513

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographic Investigation." 1936.

Semi-Annual Report, no.57

UNKNOWN

1935: Jul.-Dec.

2800

NODC Files

49-514

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographic Investigation." 1936.

Semi-Annual Report, no.58

49-514 Continued

UNKNOWN

1936: Jan.-Jun.

2216

NODC Files

49-515

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographical Investigation." 1937.

Semi-Annual Report, no.59

UNKNOWN

1936: Jul.-Dec.

2771

NODC Files

49-517

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographical Investigation." 1938.

Semi-Annual Report, no.61

UNKNOWN

1937: Jul.-Dec.

2705

NODC Files

49-518

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographical Investigation." 1938.

Semi-Annual Report, no.62

UNKNOWN

1938: Jan.-Jun.

2549

NODC Files

49-519

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographical Investigation." 1939.

49-519 - Continued

Semi-Annual Report, no.63 and Punched Cards

UNKNOWN

1938: Jul.-Dec.

2263

NODC Files

49-520

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographical Investigation." 1939.

Semi-Annual Report, no.64

UNKNOWN

1939: Jan.-Jun.

2244

NODC Files

49-521

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographical Investigations." 1940.

Semi-Annual Report, no.65

UNKNOWN

1939: Jul.-Dec.

2008

NODC Files

490522

Imperial Fisheries Experimental Station,
Tokyo. "Oceanographic Investigation." 1941.

Semi-Annual Report, no.66

UNKNOWN

1940: Jan.-Jun.

1762

NODC Files

490523

Imperial Fisheries Experimental Station,

490523 - Continued

490523	Tokyo. "Oceanographical Investigation." 1941. Semi-Annual Report, no.67	490527	Imperial Fisheries Experimental Station, Tokyo. "Oceanographical Investigation." 1943.
UNKNOWN			Semi-Annual Report, no.71
1472	1940: Jul.-Dec. NODC Files	UNKNOWN	1942: Jul.-Dec.
490524		572	NODC Files
Imperial Fisheries Experimental Station, Tokyo. "Oceanographical Investigation." 1942.		490528	Tokai Regional Fisheries Research Laboratory, Tokyo. "Oceanographical Investigation." 1951.
Semi-Annual Report, no.68			Semi-Annual Report, no.72
UNKNOWN	1941: Jan.-Jun.	UNKNOWN	1943: to
2192	NODC Files	UNKNOWN	1944:
490525		956	NODC Files
Imperial Fisheries Experimental Station, Tokyo. "Oceanographical Investigation." 1942.		490601	Tohoku Regional Fisheries Research Laboratory, Shiogama. "Oceanographic Investigation." 1958.
Semi-Annual Report, no.69			Annual Report, 1958
UNKNOWN	1941: Jul.-Dec.	SOYO MARU	1947: Jun.-Aug.
1338	NODC Files	SOYO MARU	1948: Aug.-Nov.
490526		SHUNKOTU MARU	1947: Nov.-Dec.
Imperial Fisheries Experimental Station, Tokyo. "Oceanographical Investigation." 1943.		SHUNKOTU MARU	1948: Aug.
Semi-Annual Report, no.70		SINYO MARU	1948: Aug.
UNKNOWN	1942: Jan.-Jun.	NANAO MARU	1948: May
503	NODC Files	290	NODC Files
		490602	Tohoku Regional Fisheries Research Laboratory,

490602 - Continued

Shiogama. "Oceanographic Investigation." 1952.

Annual Report on the Fish Resources, 1952, Sect.1

HUSA MARU	1949: Apr.
KYOSEI MARU	1949: Apr.
MUSAI MARU	1949: Apr.
IBARAGI MARU	1949: May
DAITO MARU	1949: Jul.
IWATE MARU	1949: Aug.
SOYO MARU	1949: Dec.

253 NODC Files

490603

Tohoku Regional Fisheries Research Laboratory,
Shiogama. "Oceanographic Investigation." 1958.

Annual Report on the Fish Resources, Sect.1

DAITO MARU	1950: May-Sep.
KYOSEI MARU	1950: May-Sep.
IWATE MARU	1950: May-Sep.
HUSA MARU	1950: Aug.-Sep.
ZYOBAN	1950: Aug.-Sep.
IBARAGI MARU	1950: Sep.
TIBA MARU	1950: Sep.
SAGAMI MARU	1950: Sep.-Oct.
KYO MARU 1	1950: Sep.
SOYO MARU	1950: Oct.-Nov.
HATIKO MARU	1950: Aug.
ASAHI MARU	1950: Sep.

591

NODC Files

490604

Tohoku Regional Fisheries Research Laboratory,
Shiogama. "Oceanographic Investigation." 1950.

490604 - Continued

Annual Report on the Fish Resources, Sect.1

FUJI MARU	1951: Apr.-Sep.
DAITO MARU	1951: Apr.-Sep.
KYOSEI MARU	1951: Jun.
IWATE MARU	1951: Jun.
SOYO MARU	1951: Jul.-Sep.
KOSHI MARU	1951: Aug.
TIBA MARU	1951: Sep.
SHUSIMA MARU	1951: Sep.
KITAKAMI MARU	1951: Sep.
IBARAGI MARU	1951: Sep.
ASAHI MARU	1951: Aug.-Sep.

509 NODC Files

490605

Tohoku Regional Fisheries Research Laboratory,
Shiogama. "Oceanographic Investigation." 1961.

Annual Report on the Fish Resources, Sect.1

IWATE MARU	1952: May-Jun.
DAITO MARU	1952: May-Sep.
KITAKAMI MARU	1952: Jun.-Sep.
SOYO MARU	1952: Jul.-Sep.
IBARAGI MARU	1952: Aug.-Sep.
IWAKI MARU	1952: Aug.
SEIYO MARU	1952: Aug.-Sep.
FUKIMAYA MARU	1952: Sep.
ASAHI MARU	1952: Sep.-Oct.

561

NODC Files

49-606

Tohoku Regional Fisheries Research Laboratory,
Shiogama. "Oceanographic Investigation." 1962.

49-606 - Continued

Annual Report on the Fish Resources, Sect.1

SOYO MARU 1953:
 ASahi MARU NO.1 1953:
 MYOKO MARU 1953:
 DAITO MARU 1953:
 IWAKI MARU 1953:
 IBARAGI MARU 1953:
 IWATE MARU 1953:
 TIBA MARU 1953:
 KYOSEI MARU 1953:
 KITAKAMI MARU 1953:

NODC Files

598

49-614

Tohoku Regional Fisheries Research Laboratory,
 Shiogama. "Oceanographic Investigation." 1962.

Annual Report on the Fish Resources, Sect.1

SOCHIHO MARU 1961: Apr.-Nov.
 IBARAGI MARU 1961: Apr.-Dec.
 WAKATAKA MARU 1961: May-Nov.
 DAINI CHIBA MARU 1951: Jun.-Nov.
 AOTAKA MARU 1961: Jul.-Aug.
 DAINI ASHU MARU 1961: Aug.-Oct.
 CHISHIO MARU 1951: Aug.-Oct.
 KITAGAMI MARU 1961: Aug.-Oct.
 SURAGAMA MARU 1961: Aug.
 MIYAKO MARU 1961: Oct.
 OSHIMA MARU 1961: Oct.
 KUROSHIO MARU 1961: Oct.
 HIROTA MARU 1961: Sep.

NODC Files

829

49-702

University of Fisheries, Tokyo.

NODC Coding Forms

UMITAKA MARU 1960: Nov.-Dec.
 "INTERNATIONAL INDIAN
 OCEAN EXPEDITION"
 UMITAKA MARU 1961: Jan.
 "INTERNATIONAL INDIAN
 OCEAN EXPEDITION"
 UMITAKA MARU 1962: Dec.
 "INTERNATIONAL INDIAN
 OCEAN EXPEDITION"
 UMITAKA MARU 1963: Jan.-Dec.
 "INTERNATIONAL INDIAN
 OCEAN EXPEDITION"
 UMITAKA MARU 1964: Jan.
 "INTERNATIONAL INDIAN
 OCEAN EXPEDITION"

109

NODC Files

49-703

Fisheries College, Shimonoseki.

NODC Coding Forms

KOYO MARU 1962: 22 Nov. to
 "CRUISE 14"
 "INTERNATIONAL INDIAN
 OCEAN EXPEDITION"
 KOYO MARU 1963: 15 Jan.
 "CRUISE 14"
 "INTERNATIONAL INDIAN
 OCEAN EXPEDITION."
 KOYO MARU 1963: 23 Nov. to
 "CRUISE 16"

<u>49-703 - Continued</u>		<u>49-705 - Continued</u>	
"INTERNATIONAL INDIAN OCEAN EXPEDITION." KOYO MARU "CRUISE 16" "INTERNATIONAL INDIAN OCEAN EXPEDITION"		31 NODC Files	
1964: 25 Jan.		49-706 Prefectural Fisheries Experiment Station, Shizuoka. NODC Coding Forms and Punched Cards	
NODC Files		DAIFUJI MARU "EQUAPAC" 1956: 29 Jun.-26 Sep.	
48		41 NODC Files	
49-704 Kagoshima University.		49-707 Kagoshima University, Faculty of Fisheries. NODC Coding Forms and Punched Cards	
1963: 26 Nov. to		KAGOSHIMA MARU "CRUISE 63.3" "INTERNATIONAL INDIAN OCEAN EXPEDITION"	
1964: 26 Jan.		1956: Aug. "EQUAPAC"	
KAGOSHIMA MARU "CRUISE 63.3" "INTERNATIONAL INDIAN OCEAN EXPEDITION"		KEITEN MARU "EQUAPAC" 1956: Jul.-Aug.	
46		45 NODC Files	
49-705 Hokkaido University, Faculty of Fisheries.		49-708 Fisheries Agency. NODC Coding Forms and Punched Cards	
1963: 13 Dec. to		SHOYO MARU "EQUAPAC" 1956: 28 Aug.-29 Oct.	
1964: 06 Jan.		16 NODC Files	
OSHORO MARU "CRUISE 7" "INTERNATIONAL INDIAN OCEAN EXPEDITION"		49-709 Inter-American Tropical tuna Commission, La Jolla, Calif. "Oceanographic Observations from the Eastern Pacific Ocean." 1965.	
OSHORO MARU "CRUISE 7" "INTERNATIONAL INDIAN OCEAN EXPEDITION"			

49-769 - Continued

Bulletin, vol. 10, no.2

SHOYO MARU
SHOYO MARU

1963: Oct. to
1964: Mar.

144

NODC Files

49-710

University of Fisheries, Tokyo. "Journal." 1964.

Special ed., vol. 7, no.8

UMITAKA MARU
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
UMITAKA MARU
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

1961: 05 Dec. to

1962: 29 Jan.

54

NODC Files

49-711

Kagoshima University, Faculty of Fisheries.

NODC Coding Forms

KAGOSHIMA MARU
"CRUISE 61.3"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
KAGOSHIMA MARU
"CRUISE 62.4"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

1961: 05-08 Aug.

1962: 26 Jul.-12 Aug.

23

NODC Files

49-712

Kagoshima University, Faculty of Fisheries.

NODC Coding Forms

KEITEN MARU
"CRUISE 61.2"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
KEITEN MARU
"CRUISE 62.2"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"
KEITEN MARU
"CRUISE 63.2"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

1961: 24 Jun.-26 Jul.

1962: 11 Jun.-11 Jul.

1963: 22 Jun.-13 Jul.

71

NODC Files

55-001

Office de la Recherche Scientifique et Technique
Ostre-Mer (ORSTOM), Centre Nosy-Be.

NODC Coding Forms

VAUBAN
"CRUISE VB-6606"
"CRUISE VB-6608"
"CRUISE VB-6612"
"CRUISE VB-6613"
"CRUISE VB-6615"
"CRUISE VB-6618"
"CRUISE VB-6620"
"CRUISE VB-6624"
"CRUISE VB-6627"
"CRUISE VB-6630"
"CRUISE VB-6632"

1966: 03 May-03 Nov.

55-001 - Continued

42

NODC Files

55-002

Office de la Recherche Scientifique et Technique
Ostre-Mer (ORSTOM), Centre Nosy-Be.

NODC Coding Forms

VAUBAN

"CRUISE VB-6635"

VAUBAN

"CRUISE VB-6701"

"CRUISE VB-6704"

"CRUISE VB-6706"

"CRUISE VB-6709"

"CRUISE VB-6712"

"CRUISE VB-6714"

"CRUISE VB-6717"

1966: 23 Nov. to

1967: 25 Apr.

34

NODC Files

55-003

Office de la Recherche Scientifique et Technique
Ostre-Mer (ORSTOM), Centre Nosy-Be.

NODC Coding Forms

VAUBAN

"CRUISE VB-6720"

"CRUISE VB-6723"

"CRUISE VB-6724"

"CRUISE VB-6726"

"CRUISE VB-6729"

"CRUISE VB-6733"

"CRUISE VB-6737"

1967: 23 May-17 Sep.

49

WDC-A Files 248.4 A-1

57-001

Secretaria de Marina, Direccion General de Faros
e Hidrografia. "Campana Oceanografica Atlantico."
1964.

Publication

TOMAS MARIN

"OPERACION NEPTUNO"

ALTAIR (Mex.)

"OPERACION NEPTUNO"

1963: 05-18 May

1963: 05-18 May

50

NODC Files

58-001

North Atlantic Treaty Organization, Subcommittee
on Oceanographic Research. "Hydrological Obser-
vations."

Publication

HELLAND-HANSEN

"PROJECT GIBALTAR"

1961: 15 May-09 Jun.

126

NODC Files

58-002

Geofysisk Institutt, Bergen (Avd. A).

Punched Cards ICES Format

UNKNOWN

"OWS METRO"

1957: 01 Jul.-28 Dec.

119

NODC Files

58-003

Geofysisk Institutt, Bergen (Avd. A).

58-003 - Continued

Punched Cards ICES Format

UNKNOWN
"OWS ALPHA"

1958: 21 Jul.-16 Dec.

28

NODC Files

58-004

Geofvysisk Institutt, Bergen (Avd. A).

Punched Cards ICES Format

UNKNOWN
"OWS METRO"

1958: 02 Jan.-21 Jun.

118

NODC Files

58-005

Havsforsknings-Institutt, Fiskeridirektoratet,
Bergen.

Punched Cards ICES Format

G.O. SARS

1957: 05 Jun.-17 Dec.

642

NODC Files

580006

Norske Videnskaps-Akademi i Oslo. "Waters of
the Atlantic-Antarctic Ocean." 1934.

Norwegian Antarctic Expeditions, Scientific
Results vol. I, no.10 & no.11

NORVEGIA

1927: 07 Dec. to

NORVEGIA

1928: 09 Mar.

NORVEGIA

1929: 09 Dec. to

NORVEGIA

1930: 19 Feb.

580006 - Continued

82

DNO Q115 NORVEGIA
10 & 11

58-007

Bergen Museum. "Report on the Scientific
Results of the Michael Sars North Atlantic
Deep Sea Expedition."

vol. 1 + 2

MICHAEL SARS

1910: 09 Apr.-14 Aug.

107

DNO Q115 M6 v.1

58-008

Havsforsknings-Institutt, Fiskeridirektoratet,
Bergen.

Punched Cards ICES Format

G.M. DANNEVIG

1957: 15 Jan.-02 Oct.

128

NODC Files

58-009

Havsforsknings-Institutt, Fiskeridirektoratet,
Bergen.

Punched Cards ICES Format

OSCAR SUND

1957: 03 Jan.-26 May

210

NODC Files

58-010

Havsforsknings-Institutt, Fiskeridirektoratet,
Bergen.

58-010 - Continued

Punched Cards ICES Format

ASTERIAS

1957: 02-03 Apr.

5

NODC Files

580011

Norwegian North Polar Expedition, 1918-1924.
"Waters on the North-Siberian Shelf." 1933
and 1936.

vol. III & vol. IV

MAUD

1918: 19 Aug.-08 Sep.

MAUD

1919: 14 Sep.

MAUD

1920: 17 Aug.-03 Sep.

MAUD

1922: 26 Jul.-27 Dec.

MAUD

1923: 05 Jan.-19 Dec.

MAUD

1924: 10 Jan.-13 Oct.

128

DNO Q115 MAUD v.3 & v.4

58-012

Havsforsknings-Institutt, Fiskeridirektoratet,
Bergen.

Punched Cards ICES Format

G.M. DANNEVIG

1959: 28 Jan.-19 Dec.

233

NODC Files

58-013

Havsforsknings-Institutt, Fiskeridirektoratet,
Bergen.

Punched Cards ICES Format

58-013 - Continued

G.O. SARS

1958: 03 Jan.-14 Dec.

268

NODC Files

580014

Norsk Polarinstitutt. "Oceanographic Investi-
gations in East Greenland Waters."

Skrifter, no.67

VESLEKARI

1920: 07-19 Aug.

POLARBJORN

1921: 23 Jul.-19 Aug.

POLARBJORN

1932: 19 Jul.-21 Aug.

59

DNO Q115 S.O.S. no.67

580024

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1915.

Annee 1913-1914

NOT GIVEN

1914: 24 Feb.-09 May

9

DNO

580026

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1923-32.

Annees 1928 to 1931 (4 v.)

JOHAN HJORT

1928: Mar.-Dec.

JOHAN HJORT

1929: Feb.-Dec.

JOHAN HJORT

1930: Feb.-May

JOHAN HJORT

1931: Jan.-Sep.

5800026 - Continued

874

NODC Files

5800027

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1933-1935.

Annees 1932 to 1934 (3 v.)

JOHAN HJORT
JOHAN HJORT
JOHAN HJORT
POLARIS
ARMAUER HANSEN
ARMAUER HANSEN
VIRGO
VIRGO

1932: Feb.-Nov.
1933: Jan.-Oct.
1934: Feb.-Sep.
1932: Aug.
1933: Mar.
1934: Jan.-Apr.
1933: Apr.-Aug.
1934: Jan.-Jul.

1083

NODC Files

5800028

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.

Annees 1935 to 1937

ARMAUER HANSEN
ARMAUER HANSEN
ARMAUER HANSEN
FRO
JOHAN HJORT
JOHAN HJORT
JOHAN HJORT
VIRGO

1935: Feb.-Oct.
1936: Apr.-Aug.
1937: Jan.-May.
1937: May-Jul.
1935: Jan.-Nov.
1936: Jan.-Oct.
1937: Jan.-Dec.
1936: May-Jul.

1573

NODC Files

58-029

Geofysisk Institutt, Bergen

Punched Cards ICES Format

HELLAND-HANSEN

1960: May-Jun.

111

NODC Files

58-030

Norske Videnskaps-Akademi i Oslo. "Eastern North Atlantic."

Geofysiske Publikasjoner, vol. 4, no.2

ARMAUER HANSEN
ARMAUER HANSEN
ARMAUER HANSEN

1913: 05-09 Jul.
1914: 03 Jun.-17 Jul.
1922: 08 May-01 Jul.

127

DNO QC801 N67 v.4 no.2

58-031

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

Annee 1938

ARMAUER HANSEN
EIKEN
HUSELAND
JOHAN HJORT
VIRGO

1938: May-Jul.
1938: May
1938: May
1938: Jan.-Dec.
1938: May-Sep.

166

NODC Files

580032

Havsforsknings-Institutt, Fiskeridirektoratets,

580032 - Continued

Bergen.	58-036	Havsforskings-Institutt, Fiskeridirektoratets, Bergen.
Punched Cards		
PEDER RONNESTAD	1958: 10 Jun.-22 Aug.	Punched Cards ICES Format
91	NODC Files	ASTERIAS 1958: 11 Jan.-31 Mar.
580033		190 NODC Files
Sachsen Spitsbergen Expedition, 1910. "Sea West of Spitsbergen."		58-037
Videnskaps-Selskabets Skrifter I 1912, no.12		Havsforskings-Institutt, Fiskeridirektoratets, Bergen.
FARM	1910: 25 Jun.-07 Sep.	Punched Cards ICES Format
46	NODC Files	JOHAN HJORT 1960: May-Jun.
580034		182 NODC Files
Spitsbergen Expedition, 1912. "Spitsbergen Waters." 1915.		58-038
Videnskaps-Selskabets Skrifter I 1915, no.2		Norwegian Defense Research Establishment, Horten.
VESLEMOY	1912: 10 Jul.-01 Sep.	NODC Coding Forms
69	NODC Files	SVERDRUP 1966: 07 Jul.-06 Aug.
58-035		"NAVADO IV"
Havsforskings-Institutt, Fiskeridirektoratet, Bergen.		18 NODC Files
Punched Cards ICES Format		58-045
JOHAN HJORT	1958: 02 Nov.-12 Dec.	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1926.
155	NODC Files	Annee 1925
		NOT GIVEN 1925: Jun.-Aug.

58-045 - Continued

82

NODC Files

58-046

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1925.

Annees 1923 & 1924

NOT GIVEN
NOT GIVEN
ARMAUER HANSEN
BLAAFJELD
BLOMSTER SAEL
BLOMSTER SAEL
JOHAN HJORT
JOHAN HJORT

1923: Apr. to
1924: Sep.
1923: Aug.
1923: Jul.-Sep.
1923: Aug.-Sep.
1924: Jul.-Sep.
1923: Apr.-Aug.
1924: May-Aug.

459

NODC Files

58-048

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1950.

Annees 1940-1946

BRILLIANT
EGLANTINE
GULAFJORD
GRANNE
HERMAN FRIELE
IDUN
LINDY
LURA
MELAC
RAPPHOTOR
SIGNAL

1940: Feb.-Mar.
1946: Feb.-Mar.
1943: Jan.-Mar.
1942: Feb.-Apr.
1946: Feb.-Mar.
1946: Feb.
1944: Feb.
1944: Feb.
1945: May
1942: Jun.-Aug.
1945: Mar.

58-048 - Continued

SVINTO
SOLVEIG I
SVANEN

1944: Feb.
1946: Jun.-Jul.
1944: Mar.-Apr.
1940: Dec.
1941: Feb.-Apr.
1940: Aug.
1941: May-Jun.
1943: May-Aug.
1944: May-Jul.
1945: May-Jul.
1940: Jan.-Oct.
1941: Sep.-Nov.
1942: Apr.-Nov.
1943: Jun.-Oct.
1944: Jan.-Sep.
1945: Sep.-Nov.
1946: Jan.-Nov.

VON
VON
FRG I
FRG I
ESKIMO
ESKIMO
JOHAN HJORT
JOHAN HJORT
JOHAN HJORT
JOHAN HJORT
JOHAN HJORT
JOHAN HJORT

1814

NODC Files

580150

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1929.

vol. LV & vol. LVI

MICHAEL SARS
MORILD
MORILD
MORILD
MORILD

1924: 09 Jul.-10 Sep.
1925: 26 May-18 Aug.
1926: 16 Mar.-20 Jul.
1927: 01 Mar.-18 Aug.
1928: 13 Mar.-21 Aug.

231

DLC GC1-I66 v.LV &
v.LVI

580195

Norske Videnskaps-Akademi i Oslo, Hvalraadet.

580195 - Continued

"Hydrographic Conditions and Aeration of the Oslo Fjord."

Skrifter no.15

MOT GIVEN
MOT GIVEN

1933: 14 Jun. to
1934: 29 May

91

DNO QH91 A1H9 no.15

580200

Norske Videnskaps-Akademi i Oslo, Hvalraadet.
"Hydrographical and Chemical Investigations in the Coastal Waters off More and in the Romsdals-fjord."

Skrifter no.1

MORILD
MORILD

1929: 26 Feb.-16 May
1930: 14 Mar.-13 May

72

DNO QH91 A1H9 no.1

580259

University of Bergen.

Unpublished data on Microfilm

RINGSÆL
BLAAFJELD
FARM
TOVIK

1922: 14 Aug.-22 Sep.
1923: 04 Jul.-23 Sep.
1925: 05 Jun.-31 Aug.
1925: 08-22 Jul.
1926: 15 Jul.-05 Sep.
1935: 30 May-22 Jul.
1936: 09 Jan.-31 Aug.
1938: 06 Aug.-24 Oct.
1928: 01-13 Aug.
1929: 11 Jun.-30 Aug.

ARMAUER HANSEN
ARMAUER HANSEN
ARMAUER HANSEN
KIRKHOLMEN
MICHAEL SÆRS
MICHAEL SÆRS

580259 - Continued

MICHAEL SÆRS
MICHAEL SÆRS

HISO

BLUE JACKET

SOTRA

SOTRA

SOTRA

SOTRA

SOTRA

SOTRA

BORGES

BORGES

HUSELANDS

HUSELANDS

JOHANN HJØRT

JOHANN HJØRT

1963

NODC Files

58-289

Norwegian Fishery and Marine Investigations. 1935.

Reports vol. 1, no.2

HEIMDAL

HEIMDAL

HEIMDAL

1896: 11-14 Dec.

1897: Oct.-Dec.

1898: 07 Nov.

41

DNO QL121 N7 v.1,
no.2 NODC Files
(partial copy)

580290

Norwegian Fishery and Marine Investigations. 1909.

Reports vol. 2, no.2

MICHAEL SÆRS

1900: 21 Jul.-08 Sep.

580290 - Continued

MICHAEL SARS
HEIMDAL
HEIMDAL

1901: 28 Jan.-24 Apr.
1901: 05-18 May
1902: 06-18 May
DNO QL121 N7 v.2, no.2

146

58-294

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1950.

Annee 1947

ARMAUER HANSEN
HOGVARD
JANA
JOHAN HJORT
MALM
URAN

1947: Mar.-Jun.
1947: Jul.-Aug.
1947: Feb.-Apr.
1947: Jan.-Oct.
1947: May
1947: Nov.-Dec.

333

NODC Files

58-295

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1952.

Annee 1948

ARMAUER HANSEN
GJOA
JOHAN HJORT
KING HAakon VII
N.Y.M.S.
URAN
HEIMDAL

1948: Feb.-Oct.
1948: Feb.-Apr.
1948: Feb.-Nov.
1948: Mar.
1948: Feb.
1948: Jun.-Aug.
1948: May-Sep.

508

NODC Files

58-350

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1944.

Annees 1938 to 1939

ARMAUER HANSEN
EIKEN
HUSELAND
JOHAN HJORT
JOHAN HJORT
VIRGO
VIRGO

1938: Jan.-Apr.
1938: Feb.-Apr.
1938: Apr.-May
1938: Jan.-Dec.
1939: Jan.-Oct.
1938: May-Sep.
1939: May-Sep.

1310

NODC Files

58-404

Norske Videnskaps-Akademi i Oslo. "Svalbard
Water." 1938.

Geofysiske Publikasjoner, vol. 12, no.4

QUEST

1931: 23 Jun.-19 Aug.

134

DNO QC801 N67 v.12,
no.4

58-534

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1954.

Annee 1949

ARMAUER HANSEN
GJOA
HERMANN FRIELE

1949: Feb.-May
1949: Feb.
1949: Nov.-Dec.

58-534 - Continued

HADYR 1949: Mar.-Apr.
JOHAN HJORT 1949: Jan.-Mar.
SEIRA 1949: Mar.-Apr.

247 NODC Files

58-535 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.

Annee 1950

G.O. SARS 1950: Feb.-Dec.
JOHANN HJORT 1950: Jan.-Dec.
G.M. DANNEVIG 1950: May-Jun.
GJOA 1950: Feb.-Mar.
HEDEMANN FRIELE 1950: Feb.-Apr.

491

NODC Files

58-700

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Annee 1951

G.M. DANNEVIG 1951: Jun.
G.O. SARS 1951: Jan.-Oct.
JOHAN HJORT 1951: Mar.-Dec.
KRILL 1951: May-Aug.

877

DNO GC1 162 1951

58-701

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen,

58-701 - Continued

1953.

Annee 1952

G.M. DANNEVIG 1952: Feb.-Jun.
G.O. SARS 1952: Jan.-Dec.
JOHAN HJORT 1952: Mar.-Sep.

815 DNO GC1 162 1952

58-720

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1957.

Annee 1953

G.M. DANNEVIG 1953: Jan.-Dec.
G.O. SARS 1953: Jan.-Dec.
JOHAN HJORT 1953: Jan.-Jun.

857

NODC Files

580812

Norske Meteorologiske Institutt. "Oceanographic Stations of the Norwegian Antarctic Expedition."

Manuscript Data

THORSHAVN 1933: 28 Dec. to
THORSHAVN 1934: 13 Feb.

24

DNO GC461 J2

58-824

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1959.

58-824 - Continued

Annee 1954

G.M. DANNEVIG
G.O. SARS
JOHAN HJORT

1954: Jan.-Dec.
1954: Jan.-Dec.
1954: Mar.-Oct.

1024

NODC Files

58-846

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1960.

Annee 1955

G.M. DANNEVIG
G.O. SARS
JOHAN HJORT

1955: Jan.-Oct.
1955: Jan.-Dec.
1955: Jan.-Aug.

1035

NODC Files

580908

Geofysisk Institutt, Bergen (Avd. A).

Tabular Data

HELLAND-HANSEN

1958: 18 Jun.-13 Jul.

73

NODC Files

580941

Geofysisk Institutt, Bergen.

Manuscript Data

HELLAND-HANSEN

1958: 13 Mar.-26 Oct.

134

WDC-A Files 128.2

580955

Havsforsknings-Institutt Fiskeridirektoratet,
Bergen.

Manuscript Data

G.O. SARS

1958: 31 Mar.-16 Dec.

179

WDC-A Files 128.1
A-1 & A-2 & A-3

580957

Havsforsknings-Institutt Fiskeridirektoratet,
Bergen.

Manuscript Data

JOHAN HJORT

1958: 28 Apr.-15 Oct.

515

WDC-A Files 128.1
B-1 & B-2

58-999

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1962.

Annee 1956

G.O. SARS
JOHAN HJORT

1956:
1956:

885

NODC Files

59-001

Office de la Recherche Scientifique et Tech-
nique Outre-Mer (ORSTOM), Centre d'Océanographie,
Noumea. 1962.

59-001 - Continued

Rapport Scientifique no.24

DUNKERQUOISE

1961: 18-27 Nov.

29

NODC Files

59-002

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1967.

Rapport Scientifique no.2

CORIOLIS

"ALIZE"

CORIOLIS

"ALIZE"

1964: 20 Nov.-10 Dec.

1965: 18 Feb.-08 Mar.

70

NODC Files

590752

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea.

Rapport Scientifique no.3

ORSOM III

"EQUAPAC"

"CRUISE 56-4"

1956: 24 Sep.-20 Oct.

19

NODC Files

590760

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1959.

590760 - Continued

Rapport Scientifique no.7

TIARE

"BOUNTY"

1958: 21 Jun.-06 Jul.

14

DNO GC861 N9 no.7

590778

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1958.

Rapport Scientifique no.8

ORSOM III

"ASTROLABE"

1958: 5 May-19 Jun.

47

DNO GC861 N9 no.8

590807

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea.

Rapport Scientifique no.5

ORSOM III

"EQUAPAC"

"CRUISE 56-5"

1956: 29 Oct.-14 Nov.

23

NODC Files

590921

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1960.

Rapport Scientifique no.17

590921 - Continued

1959: 22 Jun.-02 Oct.

ORSOM III

"CRUISE 59-2"

"CRUISE 59-8"

"CRUISE 59-10"

24

NODC Files

590922

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1961.

Rapport Scientifique no.22 & no.23

ORSOM III
"EPI"

1960: 12-30 Sep.

32

DNO GC861 N9 no.22 & no.23

59-924

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1959.

Rapport Scientifique no.12 & no.13

ORSOM III
"BOUSSOLE"

1958: 05 Nov.-02 Dec.

37

DNO GC861 N9 no.12 & no.13

59-925

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1959.

59-925 - Continued

Rapport Scientifique no.14 & no.19

TIARE

1959: 08-14 Aug.

"DAUPHIN"

9

DNO GC861 N9 no.14 & no.19

59-926

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea. 1960.

Rapport Scientifique no.15 & no.16

ORSOM III
"CHOISEUL"

1959: 16-30 May

29

DNO GC861N9 no.15 & no.16

59-927

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea.

Rapport Scientifique no.18 & no.19

ORSOM III
"DILLON"

1960: 10-27 May

28

DNO GC861 N9 no.18 & no.19

59-928

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie,

59-928 - Continued

phie, Noumea. 1961.

Rapport Scientifique no.20

ORSOM III

1960: 11-15 Apr.

10

NODC Files

59-929

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Centre d'Océanographie, Noumea.

Rapport Scientifique no.21

TIAPÉ
"ENTRECASTEAUX"

1960: 11-23 Aug.

21

DNO GC861 N9 no.21

610938

Oceanographic Institute, Wellington. "General Account of the Chatham Island Expedition." & "Hydrology of New Zealand Coastal Waters." 1957 and 1961.

Memoir no.2 & no.8

UNKNOWN
LACHLAN
ALERT

1954: 27 Jan.-12 Feb.
1955: 25 Jan.-14 Dec.
1955: 25 Jan.-14 Dec.

263

DNO GC1 N452M5 no.2 &
NODC Files

61-950

Oceanographic Institute, Wellington. "Ant-arctic Convergence South of New Zealand." 1958.

61-950 - Continued

Contribution no.42

BROUGH

1958: 02 Jan.-02 Aug.

37

DNO GC1 N452 no.42

64-001

Koninklijk Nederlandsch Meteorologisch Instituut, De Bilt.

Tabular Data

CIRRUS "OWS JULIETT"
CIRRUS "OWS JULIETT"
CIRRUS "OWS JULIETT"
CIRRUS "OWS JULIETT"

1955: 01-18 Sep.

1956: 27 Apr.-14 May

1957: 13-31 May

1959: 13 Apr.-12 Oct.

81

NODC Files

64-002

Koninklijk Nederlandsch Meteorologisch Instituut, De Bilt.

Tabular Data

CUMULUS
"OWS METRO"
CUMULUS
"OWS METRO"
CUMULUS
"OWS METRO"

1954: Jul.-Dec.

1955: Jan.

1956: Aug.-Oct.

145

NODC Files

64-003	Koninklijk Nederlandsch Meteorologisch Instituut, De Bilt.	1964: 17-25 Mar.
	Tabular Data	
	CUMULUS	
	"ONS INDIA"	
14		
	1964: 15 May-01 Jun.	
	NODC Files	
640004	Koninklijk Nederlandsch Meteorologisch Instituut, De Bilt.	
	Tabular Data	
	WILLEM BEUKELSZ	
	"CRUISE 0-531"	
79		
	1964: 01-05 Jun.	
	NODC Files	
64-005	Koninklijk Nederlandsch Meteorologisch Instituut, De Bilt.	
	Tabular Data	
	TEXEL	
	1964: 20 Feb.-02 Mar.	
	NODC Files	
131		
64-006	Koninklijk Nederlandsch Meteorologisch Instituut, De Bilt.	
	Tabular Data	
	1964: 04-14 Aug.	
	1914: 02 Mar.-05 May	
	DNO GC1 I62	
	1913-1914	
640025	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1931-32.	
	Annees 1930 to 1931 (2 v.)	
	NAUTILUS (Neth.)	
	1930: Jul. to	

640026 - Continued

NAUTILUS (Meth.)

24

1931: Jun.

NODC Files

640027

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1933-35.

Annees 1932 to 1934 (3 v.)

NAUTILUS (Meth.)
NAUTILUS (Meth.)
NAUTILUS (Meth.)

1932: Jul.-Nov.
1933: Jul.
1934: Jun.-Jul.

74

NODC Files

640028

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.

Annees 1935 to 1937 (3 v.)

NAUTILUS (Meth.)
NAUTILUS (Meth.)
NAUTILUS (Meth.)

1935: Jun.-Jul.
1936: May-Jul.
1937: May-Jun.

148

NODC Files

640198

Koninklijk Nederlandsch Meteorologisch Instituut, De Bilt. "Expedition in the Eastern part of the Netherlands East Indies." 1936-1950.

vols. 1, 2, 3, & 4.

SNELLIUS

1929: 27 Jul. to

640198 - Continued

SNELLIUS

1930: 15 Nov.

539

DNO Q115 SNELLIUS

64-295

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Annee 1948

SOEMBA

1948: Sep.

13

NODC Files

64-534

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.

Annee 1949

VAN LEEUWENHOEK

1949: Mar.-Sep.

72

NODC Files

64-535

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Annee 1950

VAN LEEUWENHOEK

1950: Feb.-Mar.

20

NODC Files

64-824 - Continued

64-700	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.	1952:	
	Annee 1951		
	VAN LEEUWENHOEK	1951:	
138		DNO GC1 I62 1951	
64-701	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1953.		
	Annee 1952		
	VAN LEEUWENHOEK	1952:	
214		DNO GC1 I62 1952	
64-720	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1957.		
	Annee 1953		
	VAN LEEUWENHOEK	1953:	
232		NODC Files	
64-824	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1959.		
	Annee 1954		
	VAN LEEUWENHOEK	1954: Apr.-Sep.	
52		NODC Files	
64-846	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1960.		
	Annee 1955		
	VAN LEEUWENHOEK	1955:	
91		NODC Files	
640906	Koninklijk Meteorologisch Instituut, De Bilt.		
	Tabular Data		
	CIRRUS	1957: 13-19 Oct.	
	"OWS INDIA"		
	"OWS KILO"		
	CIRRUS	1958: 27 Feb.-04 May	
	"OWS INDIA"		
	"OWS KILO"		
89		NODC Files	
640956	Koninklijk Meteorologisch Instituut, De Bilt.		
	Tabular Data		
	CUMULUS	1958: 25 Jun.-22 Dec.	
	"OWS METRO"		

640956 - Continued

CUMULUS
"OWS METRO"
UNKNOWN
"OWS METRO"
UN/YOWN
"OWS METRO"

145

NODC Files

640999

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1962.

Annee 1956

WEATHER STATION

1956: May-Dec.

42

NODC Files

650001

Instituto de Investigacion de los Recursos
Marinos.

NODC Coding Forms

BONDY

"CRUISE 6103"
"CRUISE 6104"
"CRUISE 6106"
"CRUISE 6107"

1961: 12 Feb.-19 Jul.

130

NODC Files

65-002

Instituto de Investigacion de los Recursos
Marinos.

65-002 - Continued

NODC Coding Forms

BONDY

"CRUISE 6108"
"CRUISE 6109"
"CRUISE 6110"
"CRUISE 6112"

1961: 07 Aug.-20 Dec.

119

NODC Files

65-003

Instituto de Investigacion de los Recursos
Marinos.

NODC Coding Forms

BONDY

"CRUISE 6201"

1962: 06-19 Jan.

47

NODC Files

65-004

Instituto de Investigacion de los Recursos
Marinos.

NODC Coding Forms

BONDY

"CRUISE 6202"
"CRUISE 6204"
"CRUISE 6205"
"CRUISE 6206"

1962: Feb.-Jun.

194

NODC Files

65-005

Instituto de Investigacion de los Recursos

65-005 - Continued

Marinos.

NODC Coding Forms

BONDY

"CRUISE 6207"
"CRUISE 6210"
"CRUISE 6211"

174

NODC Files

1962: 06 Jul.-12 Dec.

65-006

Instituto de Investigacion de los Recursos
Marinos.

NODC Coding Forms

BONDY

"CRUISE 6301"
"CRUISE 6302"
"CRUISE 6308"
"CRUISE 6310"

275

NODC Files

1963: Jan.-Oct.

65-007

Instituto de Investigacion de los Recursos
Marinos.

NODC Coding Forms

BONDY

"CRUISE 6311"

87

NODC Files

1963: 27 Nov.-12 Dec.

65-008

Ministerio de Marina, Instituto del Mar del

65-008 - Continued

Peru.

NODC Coding Forms

UNANUE

"CRUISE 6402"
"CRUISE 6405"

189

NODC Files

1964: 28 Feb.-02 Jul.

65-009

Ministerio de Marina, Instituto del Mar del
Peru.

NODC Coding Forms

UNANUE

"CRUISE 6408"
"CRUISE 6411"

317

NODC Files

1964: 20 Aug.-21 Dec.

65-010

Ministerio de Marina, Instituto del Mar del
Peru.

NODC Coding Forms

UNANUE

"CRUISE 6504"
"EL NINO"

66

NODC Files

1965: 01-21 Apr.

65-011

Ministerio del Marina, Instituto del Mar del
Peru.

65-011 - Continued

NODC Coding Forms

UNANUE
"CRUISE 6507"
"CRUISE 6508"

1965: 09 Jul.-09 Sep.

136

NODC Files

65-012
Ministerio de Marina, Instituto del Mar del Peru.

NODC Coding Forms

UNANUE
"CRUISE 6510"
"CRUISE 6511"

1965: 22 Oct.-07 Dec.

147

NODC Files

65-015
Ministerio de Marina, Instituto del Mar del Peru.

NODC Coding Forms

UNANUE
"CRUISE 6602"

1966: 03-20 Feb.

73

NODC Files

65-016
Ministerio de Marina, Instituto del Mar del Peru.

NODC Coding Forms

UNANUE

1966: 02-24 May

65-016 - Continued

"CRUISE 6605"
"EL NINO"

66

NODC Files

670026

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1929-31.

Annees 1928 to 1930 (3 v.)

NOT GIVEN
NOT GIVEN

1928: Aug.-Nov.
1929: Jul.-Dec.
1930: Feb.-Oct.

94

NODC Files

670028

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1937-39.

Annees 1936 to 1937 (2 v.)

DAR POMORZA
DAR POMORZA

1936: Feb. to
1937: Nov.

213

NODC Files

67-048

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1950.

Annees 1940 to 1946

NOT GIVEN

1946: Jun.-Dec.

67-048 - Continued

34 NODC Files

67-294 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1950.

Annee 1947

NOT GIVEN 1947: Apr.-Dec.

59 NODC Files

67-295 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Annee 1948

NOT GIVEN 1948: Jan.-Nov.

47 NODC Files

67-350 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

Annees 1938 to 1939

NOT GIVEN 1938: Jan.-Dec.

83 NODC Files

67-701 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen,

67-701 - Continued

Annee 1952

NOT GIVEN 1952: Jan.-Dec.

91 DNO GC1 162 1952

67-720 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1957.

Annee 1953

NOT GIVEN 1953: Jan.-Oct.

78 NODC Files

67-824 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1959.

Annee 1954

NOT GIVEN 1954: Mar.-Sep.

45 NODC Files

67-846 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1960.

Annee 1955

NOT GIVEN 1955: Jan.-Dec.

49 NODC Files

[illegible]

680701 - Continued

BALDAQUE DA SILVA 1952: 09 Feb.-15 Dec.

46 DNO GC1 162 1952

680720 International Council for the Exploration of the Sea. "Bulletin Hydrographique" Copenhagen, 1957.

Annee 1953

BALDAQUE DA SILVA 1953: 06-07 Jan.

4 NODC Files

740001 Fisheries Laboratory, Lowestoft.

Punched Cards ICES Format

ERNEST HOLT 1958: 06 Feb.-08 Dec.

306 NODC Files

74-002 Fishery Board for Scotland, Marine Laboratory, Aberdeen.

Punched Cards ICES Format

CLUPEA 1957: 04 Mar.-10 Sep.

317 NODC Files

74-003 Fishery Board for Scotland, Marine Laboratory,

74-003 - Continued

Aberdeen.

Punched Cards ICES Format

KATHLEEN 1957: 07 Jan.-02 Aug.

60 NODC Files

740005 British Museum (Natural History). "John Murray Expedition 1933-1934" & "Data Tables", 1935.

Scientific Reports, vol. 1 no. 1-5

MABAHISS 1933: 10 Sep.-29 Dec.
ENDEAVOUR 1934: 16 Jan.-17 May

119 DNO Q115 MURRAY 1933
-1934 v.1 no.1-5 &
Q115 MURRAY H14026/41

74-006 Hong Kong Fisheries Research Station, Aberdeen.

Originator's Coding Forms

CAPE ST. MARY 1964: Feb.

34 NODC Files

74-007 National Institute of Oceanography, Wormley.

NODC Coding Forms

74-007 - Continued

DISCOVERY (new)
73
1963: 25 Jun.-18 Aug.
NODC Files

74-008
Fishery Board for Scotland, Marine Laboratory,
Aberdeen.

Punched Cards ICES FORMAT

SULA
SARSIA
WILLIAM HERDMAN
1957: Feb.-Dec.
1957: Jan.-Nov.
1957: Aug.

31
NODC Files

74-009
National Institute of Oceanography, Wormley.

Punched Cards ICES FORMAT

DISCOVERY II
65
1960: 31 May-15 Jun.
NODC Files

74-010
Fishery Board for Scotland, Marine Laboratory,
Aberdeen.

Punched Cards ICES FORMAT

EXPLORER (U.K.)
MARA
1960: Jan.-Dec.
1960: Feb.-Oct.

74-010 - Continued

463
NODC Files

74-011
Fisheries Laboratory, Lowestoft.

Punched Cards ICES FORMAT

SIR LANCELOT
PLATESSA
1958: 25 Jun.-21 Dec.
1958: 15 Jul.-31 Aug.

130
NODC Files

74-012
Marine Biological Association Laboratory,
Plymouth & National Institute of Oceanog-
raphy, Wormley.

Punched Cards ICES FORMAT

SARSIA
SULA
27
1958: Mar.-Sep.
1958: 20 May
NODC Files

74-013
University of Liverpool.

Punched Cards ICES FORMAT

WILLIAM HERDMAN
21
1958: Jul.-Aug.
NODC Files

74-014

Fishery Board for Scotland Marine Laboratory,
Aberdeen.

Punched Cards ICES FORMAT

EXPLORER (U.K.)

1959: Jan.-Nov.

291

NODC Files

740024

International Council for the Exploration of
the Sea. "Bulletin Hydrographique."
Copenhagen, 1915.

Annees 1913-1914

NOT GIVEN
NOT GIVEN

1913: Jul. to
1914: Jun.

310

DNO GC1 162 1913-1914

740025

International Council for the Exploration of
the Sea. "Bulletin Hydrographique."
Copenhagen, 1915.

Annees 1914-1915

NOT GIVEN
NOT GIVEN

1914: Jul. to
1915: Jun.

68

NODC Files

740026

International Council for the Exploration of
the Sea. "Bulletin Hydrographique". Copen-
hagen, 1928-32.

Annees 1927 to 1931 (5 v.)

NOT GIVEN

FLINDERS

FLINDERS

GEORGE BLIGH

GEORGE BLIGH

GEORGE BLIGH

GEORGE BLIGH

EXPLORER (U.K.)

EXPLORER (U.K.)

EXPLORER (U.K.)

EXPLORER (U.K.)

KELLETT

BEAUFORT

BEAUFORT

ROSEMARY

ROSEMARY

ORMONDE

CHERWELL

CHERWELL

BOYNE

EVADNE

EVADNE

EVADNE

EVADNE

2260

NODC File

1927: Jan.-Dec.

1928: Aug.

1929: Jul.

1928: Apr.-Oct.

1929: Mar.

1930: Jul.-Oct.

1931: Apr.-Oct.

1928: Apr.-Dec.

1929: Feb.-Dec.

1930: Feb.-Dec.

1931: Feb.-Nov.

1929: Sep.

1929: May to

1930: Sep.

1929: Jun.-Sep.

1930: Apr.-Aug.

1929: Oct.

1929: Jun.

1930: May-Jun.

1931: Jun.

1928: Apr.-Oct.

1929: Jan.-Oct.

1930: Feb.-Sep.

1931: Feb.-Oct.

740028 - Continued

740027	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1933-35.	
	Annees 1932 to 1934 (3 v.)	
	CHALLENGER	1932: Jan.-Dec.
	CHALLENGER	1933: Apr.
	CHALLENGER	1934: Apr.-Jul.
	EXPLORER (U.K.)	1932: Mar.-Nov.
	EXPLORER (U.K.)	1933: Feb.-Nov.
	EXPLORER (U.K.)	1934: Jan.-Dec.
	GEORGE BLIGH	1932: May-Dec.
	GEORGE BLIGH	1933: Apr.-Oct.
	GEORGE BLIGH	1934: Jan.-Dec.
	ONAWAY	1932: Jul.-Nov.
	ONAWAY	1933: Mar.-Dec.
	ONAWAY	1934: Jan.-Dec.
	SALPA	1931: Dec.
	SALPA	1932: Jan.-Dec.
	SALPA	1933: Jan.-Dec.
	SALPA	1934: Jan.-Dec.
	BEAUFORT	1934: Jun.-Jul.
1742		NODC Files
740028	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.	
	Annees 1935 to 1937	
	BEAUFORT	1935: May-Jul.
	CHALLENGER	1935: Apr.-Nov.
	CHALLENGER	1936: Apr.
	CHALLENGER	1937: Feb.-May
	EXPLORER (U.K.)	1935: Mar.-Dec.
	EXPLORER (U.K.)	1936: Feb.-Dec.
	EXPLORER (U.K.)	1937: Mar.-Dec.
	GEORGE BLIGH	1935: Apr.-Dec.
	GEORGE BLIGH	1936: Jan.-Nov.
	GEORGE BLIGH	1937: Jan.-Nov.
	ONAWAY	1935: Jan.-Dec.
	ONAWAY	1936: Feb.-Aug.
	ONAWAY	1937: Jan.-May
	SALPA	1935: Jan.-Dec.
	SALPA	1936: Jan.-Sep.
	SALPA	1937: Jan.-Dec.
2075		NODC Files
74-029	Fishery Board for Scotland, Marine Laboratory, Aberdeen.	
	Punched Cards ICES Format	
	SCOTIA	1959: Feb.-Dec.
	CLUPEA	1959: Feb.-Dec.
732		NODC Files
74-030	National Institute of Oceanography, Wormley.	
	NODC Coding Forms	
	DISCOVERY (new)	1964: 22 Feb.-11 Sep.
	"CRUISE 3"	
313		NODC Files

74-034 - Continued

74-031	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.		
	Annees 1938-1939		
	EXPLORER (U.K.)	1938: Jun.-Jul.	
58		NODC Files	
74-032	Fishery Board for Scotland, Marine Laboratory, Aberdeen.		
	Punched Cards ICES Format		
	SCOTIA	1960: Feb.-Dec.	
	CLUPEA	1960: Feb.-Dec.	
581		NODC Files	
74-033	Fisheries Laboratory, Lowestoft.		
	Punched Cards ICES Format		
	FRNEST HOLT	1960: May-Jun.	
120		NODC Files	
74-034	Hong Kong Fisheries Research Station, Aberdeen.		
	NODC Coding Forms		
	CAPE ST. MARY	1965: 02-09 Oct.	
	"CRUISE 16/65"		
24		NODC Files	
740035	Colonial Office, Discovery Committee. "Discovery Reports". Cambridge, 1929.		
	vol. I		
	DISCOVERY	1925: 12 & 25 Apr.	
	WILLIAM SCORESBY	1926: 30 Jan.-28 Jun., 08 Sep.-29 Dec.	
	MARINE BIOLOGICAL STATIONS	1927: 05 Jan.-22 Dec.	
236		NODC Files	
740036	Colonial Office, Discovery Committee. "Discovery Reports". Cambridge, 1930.		
	vol. III		
	WILLIAM SCORESBY	1927: 18 Nov.- 08 Dec.	
	C.A. LARSEN	1928: 09 Feb.-30 Dec.	
	ANGLO-NORSE	1929: 08 Jan.-06 May	
244		DNO Q115 DISCOVERY v.3	
740037	Colonial Office, Discovery Committee. "Dis-		

740037 - Continued

covery Reports". Cambridge, 1932

vol. IV

DISCOVERY II 1929: 19 May-30 Dec.
WILLIAM SCORESBY 1930: 03 Jan.-29 Dec.
MARINE BIOLOGICAL STATIONS

1931: 13 Jan.-14 May
DNO Q115 DISCOVERY v.4

533

74-038

Colonial Office, Discovery Committee. "Dis-
covery Reports". Cambridge, 1941.

vol. XXI

DISCOVERY II 1931: 10 Oct. to
DISCOVERY II 1932: to
DISCOVERY II 1933: 19 Apr.

381

NODC Files

740039

Colonial Office, Discovery Committee. "Dis-
covery Reports". Cambridge, 1942.

vol. XXII

DISCOVERY II 1933: 19 Nov. to
DISCOVERY II 1934: to
DISCOVERY II 1935: 05 May

264

DNO Q115 DISCOVERY
v.22

740040

Colonial Office, Discovery Committee. "Dis-
covery Reports". Cambridge, 1944.

vol. XXIV

DISCOVERY II 1935: 18 Oct. to
DISCOVERY II 1936: to
DISCOVERY II 1937: to
DISCOVERY II 1938: to
DISCOVERY II 1939: 20 Apr.

551

DNO Q115 DISCOVERY
v.24

740041

Colonial Office, Discovery Committee. "Dis-
covery Reports". Cambridge, 1953.

vol. XXV

WILLIAM SCORESBY 1931: 18 May to
WILLIAM SCORESBY 1932: to
WILLIAM SCORESBY 1933: to
WILLIAM SCORESBY 1934: to
WILLIAM SCORESBY 1935: to
WILLIAM SCORESBY 1936: to
WILLIAM SCORESBY 1937: 16 Mar.

317

DNO Q115 DISCOVERY
v.25

740042

Admiralty, Hydrographic Dept.

740042 - Continued

NODC Coding Forms

CABLE ENTERPRISE
"PROJECT 1"

10

NODC Files

1966: 19 Jan.-02 Feb.

74-045

International Council for the Exploration of
the Sea. "Bulletin Hydrographique". Copen-
hagen, 1926.

Annex 1925

NOT GIVEN

1925: Mar.-Dec.

291

NODC Files

74-047

International Council for the Exploration of the
Sea. "Bulletin Hydrographique". Copen-
hagen, 1924.

Annexes 1920 to 1923

J. AND S. MILES
J. AND S. MILES
J. AND S. MILES
J. AND S. MILES

1920: Mar.-Oct.
1921: Jan.-Nov.
1922: Feb.-Dec.
1923: Feb.-Nov.

871

NODC Files

74-048

International Council for the Exploration of
the Sea. "Bulletin Hydrographique". Copen-
hagen, 1950.

74-048 - Continued

Annexes 1940 to 1946 & Appendix
Annexes 1936-1939

ELK

1938: Jan.-Jul.

ELK

1939: Jun.

EXPLORER (U.K.)

1939: Apr.-Aug.

EXPLORER (U.K.)

1946: May-Dec.

GEORGE BLIGH

1938: Apr.

GEORGE BLIGH

1939: Apr.-Aug.

PLATESSA

1946: Jul.-Nov.

SALPA

1939: Jan.-Aug.

SABELLA

1946: Nov.-Dec.

SIR LANCELOT

1946: Dec.

NODC Files

627

74-050

Admiralty, Hydrographic Dept.

NODC Coding Forms

VIDAL

1963: 01 Nov. to

"NAVADO I"

VIDAL

1964: 01 Jun.

"NAVADO I"

22

NODC Files

74-051

Admiralty, Hydrographic Dept.

NODC Coding Forms

VIDAL

1965: 14 Jan.-27 Mar.

"NAVADO I"

74-051 - Continued

5

NODC Files

74-052

Admiralty, Hydrographic Dept.

NODC Coding Forms

VIDAL
"NAVADO II"

1964: 24 Apr.-09 Jul.

12

NODC Files

74-053

Admiralty, Hydrographic Dept.

NODC Coding Forms

OMEN
"NAVADO II"

1965: 19 Mar.-27 Apr.

4

NODC Files

74-054

Admiralty, Hydrographic Dept.

NODC Coding Forms

VIDAL
"NAVADO IV"

1966: 26 Apr.-10 Sep.

23

NODC Files

74-055

Admiralty, Hydrographic Dept.

NODC Coding Forms

HECATE
"NAVADO IV"

1966: 14-23 Oct.

5

NODC Files

740140

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1925.

vol.LXXVII

SALPA

1924: Jan.-Dec.

49

DNO GC1 I66 v.37

740141

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1932.

vol.LXXVII

SALPA

1930: Feb.-Jul.

18

DNO GC1 I66 v.77

740145 - Continued

740142	International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." 1923.		
	vol.XXXI		
	SALPA	1922: Jan.-Nov.	
53		DNO GC1 I66 v.31	
740143	International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1925.		
	vol.XXV		
	SALPA	1923: Jan.-Dec.	
49		DNO GC1 I66 v.25	
740144	International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1929.		
	vol. LX		
	SALPA	1925: Jan.-Dec.	
34		DNO GC1 I66 v.50	
740145	International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1929.		
	vol.LX		
	SALPA	1926: 31 Dec.	
		1927: 15 Feb.-09 Dec.	
26		DNO GC1 I66 v.55	
740146	International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1931.		
	vol.LXX		
	SALPA	1929: Jan.-Jun.	
21		DNO GC1 I66 v.70	
740147	International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1933.		
	vol.LXXXIV		
	SALPA	1931: Mar.-Nov.	
28		DNO GC1 I66 v.84	
740148	International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1923.		

740148 - Continued

vol. XXIX

SALPA

76

1921: Apr.-Aug.

DNO GC1 I66 v.29

740149

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1929.

vol. XLIV

SALPA

30

1926: Feb.-Dec.

DNO GC1 I66 v.44

740193

International Council for the Exploration of the Sea. "Rapports et Proces-Verbaux des Reunions." Copenhagen, 1929.

vol. LXII

SALPA

26

1928: Jan.-Nov.

DNO GC1 I66 v.62

740227

B.A.N.Z. Antarctic Research Expedition, 1929-1931.

Report, Ser. A, vol.III pt.2

740227 - Continued

DISCOVERY II
DISCOVERY II
DISCOVERY II

1929: Dec.
1930: to
1931: Mar.

40

DNO Q115 BANZ
Ser. A, v.3 pt.2

74-294

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1950.

Annee 1947

EXPLORER (U.K.)

PLATESSA

SABELLA

SIR LANCELOT

1947: Apr.-Dec.

1947: Aug.

1947: Jan.-Dec.

1947: Jan.-Dec.

547

NODC Files

74-295

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.

Annee 1948

CLUPEA

EXPLORER (U.K.)

KATHLEEN

PLATESSA

SABELLA

SCOTIA

SIR LANCELOT

SULA

1948: Feb.-Aug.

1948: Jan.-Aug.

1948: Feb.-Nov.

1948: Feb.-Nov.

1948: Feb.

1948: Feb.-Oct.

1948: Jan.-Dec.

1948: Jul.-Oct.

74-295 - Continued

742

NODC Files

74-350

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

Annees 1938-1939

CHALLENGER

EXPLORER (U.K.)

EXPLORER (U.K.)

GEORGE BLIGH

GEORGE BLIGH

ONAWAY

ONAWAY

SALPA

1938: Feb.-May

1938: Mar.-Dec.

1939: Mar.

1938: Feb.-Dec.

1939: Jan.-Mar.

1938: Apr.

1939: Apr.

1938: Jan.

NODC Files

563

740358

Admiralty, Hydrographic Dept.

Tabular Data

DAMPIER

1948: 08-22 Jul.

10

NODC Files

740361

Fisheries Laboratory, Lowestoft. "Hydrographical Observations."

Publication

740361 - Continued

ERNEST HOLT

ERNEST HOLT

1949: 07 Jan.-26 Nov.

1950: 12 Jan.-29 Nov.

243

DNO GC561 G7H9 1949-1950

740379

Colonial Office, Discovery Committee. "Discovery Reports." 1950.

vol. XXVI

WILLIAM SCORESBY

1950: 18 Jan.-12 Oct.

120

DNO Q115 DISCOVERY v.26

740458

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PLATESSA

SIR LANCELOT

1957: 21-29 Aug.

1957: 18-20 Jul.

1957: 21-24 Jun.

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74-534

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CLUPEA

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1949: Jan.-Aug.

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KATHLEEN	1949: Feb.-Dec.	74-596	National Institute of Oceanography, Unpublished Manuscripts, Wormley & Woods Hole Oceanographic Institution. "Oceanographic Data International Geophysical Year." 1959.
SABELLA	1949: Mar.		
SCOTIA	1949: Jan.-Nov.		
SULA	1949: Jan.-Dec.		
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74-535	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1954.		
Annee 1950			
CLUPEA	1950: Jan.-Jul.	89	NODC Files
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KATHLEEN	1950: Mar.-Nov.		
SABELLA	1950: Apr.-Dec.		
SCOTIA	1950: Feb.-Nov.		
SIR LANCELOT	1950: Apr.-Aug.		
SULA	1950: Feb.-Dec.		
1130	NODC Files		
74-577	Fisheries, Laboratory, Lowestoft. "Hydrographical Observations."		
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ERNEST HOLT	1952: 08 Mar.-02 Dec.	105	NODC Files
55	DNO GC561 G7H9 1952	740633	Admiralty, Hydrographic Dept. "Temperature and Salinity Observations in the Pacific, Indian Ocean and the Mediterranean." 1953.
	Publication		
	CHALLENGER II		1950: 16 Oct.-11 Dec.
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74-700
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1952.

Annee 1951

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ERNEST HOLT
EXPLORER (U.K.)
SULA
KATHLEEN
SABELLA
SCOTIA
SIR LANCELOT

1951: Jan.-Dec.
1951: Feb.-Dec.
1951: Jan.-Dec.
1951: Apr.-May
1951: Feb.-Oct.
1951: Apr.
1951: May-Dec.
1951: Feb.

2079

DNO GC1 I62 1951

74-701 - Continued

KATHLEEN
SULA
SABELLA
SCOTIA
SILVER SCOUT
SIR LANCELOT
ERNEST HOLT
2215
1952: Mar.-Nov.
1952: Oct.
1952: Jan.-Dec.
1952: Jan.-Dec.
1952: Jul.-Aug.
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1952: Jan.-Dec.
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175

1950: 11 May-15 Dec.
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hagen, 1953.

Annee 1952

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EXPLORER (U.K.)

1952: Jan.-Oct.
1952: Jan.-Nov.

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Fisheries Laboratory, Lowestoft. "Hydrographi-
cal Observations".

Publication

ERNEST HOLT

451

1957: 12 Mar.-10 Dec.
DNO GC561 G7H9 1957

74-720

International Council for the Exploration of the Sea. "Bulletin Hydrographique". Copenhagen, 1957.

Annee 1953

CLUPEA 1953: May-Aug.
CLIONE 1953: Mar.
SULA 1953: Mar.-Dec.
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WILLIAM HERDMAN 1953: Jan.-Dec.
KATHLEEN 1953: Mar.-Nov.
PLATESSA 1953: Jul.
SABELLA 1953: Jan.-May
SCOTIA 1953: Feb.-Dec.
SILVER SCOUT 1953: Feb.-Nov.
SIR LANCELOT 1953: Jun.

2080

NODC Files

740824

International Council for the Exploration of the Sea. "Bulletin Hydrographique". Copenhagen, 1959.

Annee 1954

CLUPEA 1954: Mar.-Nov.
ERNEST HOLT 1954: Feb.-Dec.
EXPLORER (U.K.) 1954: Jan.-Nov.
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PLATESSA 1954: Jul.
SCOTIA 1954: Feb.-Nov.
SILVER SCOUT 1954: May-Oct.
SIR LANCELOT 1954: Feb.-Sep.
CYPRIIS 1954: Feb.-Nov.
SARSIA 1954: Apr.-Jun.
SULA 1954: Apr.-Aug.
WILLIAM HERDMAN 1954: Feb.-Nov.

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740832

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740735

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1949: 15 Jan.-03 Fe

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74-846

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hagen, 1960.

Annee 1955

CLUPEA
CYPRIIS
SUIJA
ERNEST HOLT
EXPLORER (U.K.)
WILLIAM HERDMAN
KATHLEEN
SARSIA
SCOTIA
SIR LANCELOT

2038

1955: Feb.-Dec.
1955: Jan.-Dec.
1955: Mar.-Oct.
1955: Jan.-Dec.
1955: Jan.-Dec.
1955: Jun.-Oct.
1955: Jan.
1955: Apr.-Dec.
1955: Jan.-Dec.
1955: Jan.-Oct.

MODC Files

740949

Admiralty, Hydrographic Dept.

Tabular Data

VIDAL
"IGY 1957"
VIDAL
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9

1957: 22 Oct.

1958: 26 & 27 Oct.

WDC-A Files 138.2 B-1 &
B-2

740962

Fishery Board for Scotland, Marine Laboratory, Aberdeen.

Tabular Data

740962 - Continued

SCOTIA
"IGY 1957"
SCOTIA
"IGY 1958"

81

1957: 14 Jun.-20 Sep.
1958: 31 May-19 Jun.
WDC-A Files 138.3 B-1

740963

Fishery Board for Scotland, Marine Laboratory, Aberdeen.

Tabular Data

EXPLORER (U.K.)
"IGY 1957"
EXPLORER (U.K.)
"IGY 1958"

1957: 09 Sep.-01 Dec.
1958: 16 Mar.-26 Sep.

231

WDC-A Files 138.3 A-1

740999

International Council for the Exploration of the Sea. "Bulletin Hydrographique". Copenhagen, 1962.

Annee 1956

ERNEST HOLT
EXPLORER (U.K.)
CLUPEA
CYPRIIS
KATHLEEN
PLATESSA
SARSIA
SCOTIA
SIR LANCELOT

1956: Jan.-Oct.
1956: Jan.-Dec.
1956: Feb.-Dec.
1956: Jan.-Dec.
1956: Apr.
1956: May
1956: Jan.-Sep.
1956: Feb.-Nov.
1956: Jan.-Jun.

740999 - Continued

SULA
WILLIAM HERDMAN
1550
1956: Jul.-Oct.
1956: Mar.-Aug.
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1915.

Annees 1913-1914

SKAGERAK
SKAGERAK
43
1913: 15 Jul.-23 Nov.
1914: 20 Jan.-28 Jun.
DNO

770026
International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1928-32.

Annees 1927 to 1931 (5 v.)

SKAGERAK
SKAGERAK
SKAGERAK
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SKAGERAK
1927: Jul.-Aug.
1928: Sep.-Oct.
1929: Jul.-Dec.
1930: Jan.-Nov.
1931: Aug.-Sep.
NODC Files

375
770027
International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1933-35.

770027 - Continued

Annees 1932 to 1934 (3 v.)

SKAGERAK
SKAGERAK
SKAGERAK
1932: Aug.-Nov.
1933: Jul.-Nov.
1934: Apr.-Nov.
NODC Files

256
770028
International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1936-39.

Annees 1935 to 1937

SKAGERAK
SKAGERAK
SKAGERAK
1935: Aug.-Oct.
1936: May-Nov.
1937: May-Oct.
NODC Files

101
77-045
International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1926.

Annee 1925
NOT GIVEN
60
1925: Jan.-Dec.
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77-048
International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1950.
Annees 1940-1946

77-048 - Continued

EYSTRASALT
EYSTRASALT
EYSTRASALT
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EYSTRASALT
EYSTRASALT
EYSTRASALT

1939: May-Nov.
1940: May-Oct.
1941: Jun.-Jul.
1942: May-Aug.
1943: Jul.-Sep.
1944: May-Oct.
1945: Oct.-Nov.
1946: Apr.-Oct.

169

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70

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77-245

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"Fyrskjeppsundersokning." Goteborg, 1935.

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Fiskeristyrelsen men Statens Fiskeriforsok.
"Fyrskjeppsundersokning." Goteborg, 1940.

77-246 - Continued

VARIOUS LIGHTSHIPS

,938:

DNO GC944.2 S8 1938

77-247

Fiskeristyrelsen men Statens Fiskeriforsok.
"Fyrskjeppsundersokning." Goteborg, 1942.

VARIOUS LIGHTSHIPS

1939:

DNO QC994.2 S8 1939

2513

77-248

Fiskeristyrelsen men Statens Fiskeriforsok.
"Fyrskjeppsundersokning." Goteborg, 1943.

VARIOUS LIGHTSHIPS

1940: to

1941

DNO QC994.2 S8 1943

1879

77-249

Fiskeristyrelsen men Statens Fiskeriforsok.
"Fyrskjeppsundersokning." Goteborg, 1945.

VARIOUS LIGHTSHIPS

1942: to

1943:

DNO QC994.2 S8 1942-1943

1704

77-250

Fiskeristyrelsen men Statens Fiskeriforsok.
"Fyrskjeppsundersokning." Goteborg, 1947.

77-250 - Continued

VARIOUS LIGHTSHIPS VARIOUS LIGHTSHIPS	1944: to 1945:	Année 1947 EYSTRASALT SKAGERAK (Swed.) VINGA	1947: May-Dec. 1947: May-Oct. 1947: May
1823	DNO QC994.2 S8 1944- 1945	111	NODC Files
77-295 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1952.			
VARIOUS LIGHTSHIPS VARIOUS LIGHTSHIPS	1946: to 1947:	Année 1948 EYSTRASALT SKAGERAK (Swed.)	1948: May-Dec. 1948: May-Dec.
2428	DNO QC994.2 S8 1946- 1947	126	NODC Files
77-350 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.			
VARIOUS LIGHTSHIPS VARIOUS LIGHTSHIPS	1948: to 1949:	Années 1938-1939 SKAGERAK (Swed.) SYAGERAK (Swed.)	1938: Apr. to 1939: Aug.
2095	DNO QC994.2 S8 1948- 1949	160	NODC Files
77-294 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1951.			

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770418	Swedish Deep Sea Expedition, 1947-1948.	143	NOHC Files
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	ALBATROSS (Swed.)		
	ALBATROSS (Swed.)		
	1947: 29 Aug. to		
	1948: 08 Sep.		
	DNO Q115 Ss 1947-1948		
	v.3 no.1 & no.2		
131			
	DNO Q115 Ss 1947-1948		
	v.3 no.1 & no.2		
77-534	International Council for the Exploration of the		
	Sea. "Bulletin Hydrographique." Copenhagen,		
	1954.		
	Annee 1949		
	EYSTRASALT		
	SKAGERAK (Swed.)		
	NOT GIVEN		
197			
	NOHC Files		
77-535	International Council for the Exploration of the		
	Sea. "Bulletin Hydrographique." Copenhagen,		
	1954.		
	Annee 1950		
	SKAGERAK (Swed.)		
	EYSTRASALT		
	NOT GIVEN		
	1950: Jan.-Dec.		
	1950: Aug.		
	1950: Jan.-Dec.		
77-700	International Council for the Exploration of the		
	Sea. "Bulletin Hydrographique." Copenhagen, 1952.		
	Annee 1951		
	SKAGERAK (Swed.)		
	NCT GIVEN		
	1951:		
	1951:		
133			
	DNO GC1 162 1951		
77-701	International Council for the Exploration of the		
	Sea. "Bulletin Hydrographique." Copenhagen, 1953.		
	Annee 1952		
	EYSTRASALT		
	SKAGERAK (Swed.)		
	NOT GIVEN		
74			
	DNO GC1 162 1952		
77-720	International Council for the Exploration of the		
	Sea. "Bulletin Hydrographique." Copenhagen,		
	1957		
	Annee 1953		
	SKAGERAK (Swed.)		
	NOT GIVEN		
	1953:		
	1953:		

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Fishery Board. "Hydrographical Observations on Swedish Lightships." 1957.

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77-737

Fishery Board. "Hydrographical Observations on Swedish Lightships." 1958.

Series Hydrography, Report no.10

VARIOUS LIGHTSHIPS 1957:

2454

DNO GB755 S8 no.10

77-765

Fishery Board. "Hydrographical Observations on Swedish Lightships." 1952.

Series Hydrography, Report no. 1

VARIOUS LIGHTSHIPS 1951:

2409

DNO GB755 S8 no.1

77-824

International Council for the Exploration of the

77-824 - Continued

Sea. "Bulletin Hydrographique." Copenhagen, 1959.

Annee 1954

SKAGERAK (Swed.)
NOT GIVEN

1954: Mar.-Dec.
1954:

66

NODC Files

77-846

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1960.

Annee 1955

SKAGERAK (Swed.)

1955: Jan.-Nov.

92

NODC Files

77-999

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1962.

Annee 1956

EYSTRASALT
SKAGERAK (Swed.)

1956: Jan.-Nov.
1956: Jan.-Nov.

35

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86-001	Royal Thailand Navy. Oceanographic Division.	90-001	Hydrometeorological Service & State Oceanographic Institute.
Originator's Coding Forms		Originator's Coding Forms	
FISHING VESSEL 9	1956: 04 Dec. to	POLYARNIK	1959: 15 Apr.-15 May
"CRUISE 1/99"		"CRUISE 37"	
FISHING VESSEL 9	1957: 10 Jan.		WDC-A Files 137.2 A-4
"CRUISE 1/99"		67	
"CRUISE 1/99/2"			
OCEANOGRAPHIC VESSEL 1	1957: 03 Mar.-25 Sep.	90-002	Hydrographical Service.
"CRUISE 1/2500"		Originator's Coding Forms	
"CRUISE 2/2500"		OKEAN	1957: 28 Nov.-23 Dec.
"CRUISE 3/2500"		"CRUISE 1"	1958: 10-23 Sep.
OCEANOGRAPHIC VESSEL 2	1957: 02 Apr.-16 Nov.	OKEAN	
"CRUISE 2/2500"		"CRUISE 2"	
"CRUISE 3/2500"			WDC-A Files 137.5 B-1 & B-2
"CRUISE 4/2500"		85	
571	NODC Files		
		90-003	Hydrographical Service.
		Originator's Coding Forms	
		VAL	1957: 10-15 Sep.
		"CRUISE 1"	1958: 17 Jun.-08 Jul.
		VAL	
		"CRUISE 2"	
		80	WDC-A Files 137.5 C-1 & C-2

900004	Academy of Sciences USSR, Arctic and Antarctic Scientific Research Institute.		SLAVA 15 "CRUISE 9"	1955: 09 Apr.
			SLAVA 15 "CRUISE 10"	1955: 11 Oct. to
	Originator's Coding Forms		SLAVA 15 "CRUISE 10"	1956: 06 May
08	"CRUISE 2"	1957: 14 Jan.-14 May	SLAVA 15 "CRUISE 11"	1956: 01 Nov. to
178	WDC-A Files 137.1 A-2		SLAVA 15 "CRUISE 11"	1957: 31 Mar.
900005	Academy of Sciences USSR, Arctic and Antarctic Scientific Research Institute. Leningrad, 1961.		SLAVA 15 "CRUISE 12"	1957: 27 Oct. to
	Proceedings of Soviet Antarctic Expeditions, vol. 19 & vol. 22		SLAVA 15 "CRUISE 12"	1958: 31 Mar.
			306	WDC-A Files 137.6 B-1 & B-2 & B-3
08	"CRUISE 3"	1958: 19 Jan.-18 Jun.	90-007 Hydrographical Service.	
192	WDC-A Files 137.1 A-3		Originator's Coding Forms	
90-006	Hydrometeorological Service.		SEDOV	1959: 06 Jul.-06 Aug.
	Originator's Coding Forms		41	WDC-A Files 137.5 D-1
			90-008 Marine Hydrophysical Institute.	
		1950: 12 Dec. to	Originator's Coding Forms	
		1951: 02 Oct.		
		1953: 12 Nov. to	MIKHAIL LOMONOSOV "CRUISE 5"	1959: 21 Apr.-16 Jun.
		1954: 10 Feb.		
		1954: 01 Dec. to	58	WDC-A Files 137.4 A-5

90-012 - Continued

90-009	Hydrometeorological Service.		
	Originator's Coding Forms		
	AISBERG	1959: 26 Oct.-09 Nov.	
	82	WDC-A Files 137.6 A-1	
90-010	Academy of Sciences USSR, Institute of Oceanology.		
	Originator's Coding Forms		
	VITYAZ	1959: 18 Oct. to	
	"INTERNATIONAL INDIAN		
	OCEAN EXPEDITION"		
	"CRUISE 31"		
	VITYAZ	1960: 19 Apr.	
	"INTERNATIONAL INDIAN		
	OCEAN EXPEDITION"		
	"CRUISE 31"		
216		WDC-A Files 137.1 B-6	
90-011	Polar Research Institute of Marine Fisheries and Oceanography, Murmansk (PINRO).		
	Originator's Coding Forms		
	SEVASTOPOL	1959: 28 Apr.-07 Jun.	
	"CRUISE 13"		
180		WDC-A Files 137.11 D-3	
90-012	Polar Research Institute of Marine Fisheries and Oceanography, Murmansk (PINRO).		
	Originator's Coding Forms		
	SEVASTOPOL	1959: 28 Oct.-13 Dec.	
	"CRUISE 15"		
178		WDC-A Files 137.11 D-4	
90-013	Polar Research Institute of Marine Fisheries and Oceanography, Murmansk (PINRO).		
	Originator's Coding Forms		
	ZHEMCHUG	1958: 05 Jul.-03 Aug.	
87		WDC-A Files 137.11 E-1	
90-014	Marine Hydrophysical Institute.		
	Originator's Coding Forms		
	MIKHAIL LOMONOSOV	1959: 16 Aug.-03 Nov.	
	"CRUISE 6"		
109		WDC-A Files 137.4 A-6	
900026	International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1931-32.		
	Annees 1930 to 1931 (2 v.)		
	SEKSTANT	1930: Jul.-Aug.	
	SEKSTANT	1931: Aug.-Sep.	

900026 - Continued

50 NODC Files

900027 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1933-35.

Annees 1932 to 1934 (3 v.)

LOOD 1932: 02 Aug.-17 Sep.
LOOD 1933: 13 Jul.-10 Aug.
HIDROGRAFS 1932: 11 Oct.-02 Nov.
HIDROGRAFS 1933: 07-23 Oct.
HIDROGRAFS 1934: 07 Jun.-02 Nov.

103 NODC Files

900028 International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1936-39.

Annees 1935 to 1937 (3 v.)

SEKSTANT 1935: Jul.-Aug.
SEKSTANT 1936: Jul.-Aug.
SEKSIANT 1937: Jul.-Aug.
HIDROGRAFS 1935: Jul.-Dec.
HIDROGRAFS 1936: May-Nov.
HIDROGRAFS 1937: May-Oct.

129 NODC Files

90-029 Academy of Sciences USSR, Arctic and Antarctic Scientific Research Institute. Leningrad, 1962.

Transactions Soviet Antarctic Expeditions, vol. 20

90-029 - Continued

08 "CRUISE 4" 1959: 27 Nov. to
08 "CRUISE 4" 1960: 17 Apr.
"CRUISE 5"

42 WDC-A Files 137.1
A-4 & A A-5

90-030 Academy of Sciences USSR, Institute of Oceanology.

Originator's Coding Forms

AKADEMIK S. VAVILOV 1959: 12 Jul.-13 Oct.
"MEDITERRANEAN SEA
CRUISE 1"

122 WDC-A Files 137.1 C-1

90-032 Academy of Sciences USSR, Institute of Oceanology.

Originator's Coding Forms

VITYAZ 1960: 21 Oct. to
"CRUISE 33"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

VITYAZ 1961: 12 Apr.
"CRUISE 33"
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

201 WDC-A Files 137.1 B-7

90-035 - Continued

OCEAN EXPEDITION"	
90-033 Hydrographical Service. Originator's Coding Forms	WDC-A Files 137.12 A-1, A-2, A-3
NEVELSKOI "INTERNATIONAL INDIAN OCEAN EXPEDITION"	
23	1962: 02-30 May
90-034 Academy of Sciences USSR, Institute of Ocean- ology.	WDC-A Files 137.5 F-1
Originator's Coding Forms	
VITYAZ "INTERNATIONAL INDIAN OCEAN EXPEDITION" "CRUISE 15"	1962: 23 Jun.-24 Nov.
119	WDC-A 137.1 B-9
90-035 Azov and Black Sea Scientific Institute of Fisheries, and Oceanography Kerch (AZCHERIRO).	
Originator's Coding Forms	
VOROB'YEV "INTERNATIONAL INDIAN OCEAN EXPEDITION"	1962: 10-14 Sep.
VOROB'YEV "INTERNATIONAL INDIAN OCEAN EXPEDITION"	1963: 15 Jun.-18 Dec.
VOROB'YEV "INTERNATIONAL INDIAN	1964: 04-23 Jan.
	KRUZENSHTERN
	1961: 28 Jul.-13 Oct.
55	
90-036 Hydrographical Service. Originator's Coding Forms	1960: 22 May-22 Sep.
SED'OV	WDC-A Files 137.5 D-2
94	
90-037 Hydrographical Service. Originator's Coding Forms	1961: 27 Jul.-09 Oct.
SED'OV	WDC-A Files 137.5 D-3
39	
90-038 Hydrographical Service. Originator's Coding Forms	1962: 11 Mar.-05 Jul.
SED'OV	WDC-A Files 137.5 D-4
55	
90-039 Hydrographical Service. Originator's Coding Forms	
	KRUZENSHTERN
	1961: 28 Jul.-13 Oct.

90-039 - Continued

40 WDC-A Files 137.5 E-1

90-040 Hydrographical Service.
Originator's Coding Forms
KRUZENSHTERN 1962: 10 Mar.-03 Jun.
27 WDC-A Files 137.5 E-2

90-041 Hydrographical Service.
Originator's Coding Forms
MIKHAIL LOMONOSOV
"CRUISE 11" 1961: 12 Sep.-18 Nov.

48 WDC-A Files 137.4 A-13

90-042 Hydrographical Service.
Originator's Coding Forms
MIKHAIL LOMONOSOV
"CRUISE 12" 1962: 27-31 Oct.

12 WDC-A Files 137.4 A-14

90-043 Hydrographical Service.
Originator's Coding Forms
AYTODOR 1960: 14 May-13 Jun.

90-043 - Continued

72 WDC-A Files 137.5 G-1

90-044 Far Eastern Hydrometeorological Institute of
Scientific Research.
Originator's Coding Forms
A.I. VOEIKOV 1960: 02-30 Jul.
"CRUISE 4"

233 WDC-A Files 137.8 A-1

90-049 Polar Research Institute of Marine Fisheries and
Oceanography, Murmansk (PINRO).
Punched Cards
PERSEUS (Sov.U.) 1960: 30 May-18 Jun.

98 NODC Files

90-050 Pacific Ocean Institute of Scientific Investiga-
tion for Marine Fisheries and Oceanography (TINRO)
Originator's Coding Forms
ORLIK 1960: 18 Jan.-07 Feb.

64 WDC-A Files 137.13 A-1

90-051 Pacific Ocean Institute of Scientific Investiga-
tion for Marine Fisheries and Oceanography (TINRO).
Originator's Coding Forms

90-051 - Continued

90-055 - Continued

90-051	ORLIK	1960: 09-26 Apr.	Originator's Coding Forms
64		WDC-A Files 137.13 A-2	1961: 03 Jul.-01 Aug.
90-052			WDC-A Files 137.13 B-2
	Pacific Ocean Institute of Scientific Investigation for Marine Fisheries and Oceanography (TINRO).		
	Originator's Coding Forms		
ORLIK	1960: 03 Jul.-01 Aug.		
106		WDC-A Files 137.13 A-3	1961: 27 Aug.-06 Sep.
90-053			WDC-A Files 137.13 B-3
	Pacific Ocean Institute of Scientific Investigation for Marine Fisheries and Oceanography (TINRO).		
	Originator's Coding Forms		
ORLIK	1960: 09-27 Oct.		
69		WDC-A Files 137.13 A-4	1950: 02 Dec. to
90-054			1961: 05 Apr.
	Pacific Ocean Institute of Scientific Investigation for Marine Fisheries and Oceanography (TINRO).		
	Originator's Coding Forms		
PELAMIDA	1961: 30 Apr.-26 May		
102		WDC-A Files 137.13 B-1	WDC-A Files 137.1 A-6
90-055			
	Pacific Ocean Institute of Scientific Investigation for Marine Fisheries and Oceanography (TINRO).		
	Originator's Coding Forms		
PELAMIDA			
100			
90-056			
	Pacific Ocean Institute of Scientific Investigation for Marine Fisheries and Oceanography (TINRO).		
	Originator's Coding Forms		
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37			
90-057			
	Academy of Sciences USSR, Arctic and Antarctic Scientific Research Institute. Leningrad, 1963.		
	Transactions Soviet Antarctic Expeditions, vol. 39		
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113			
90-058			
	Academy of Sciences USSR, Arctic and Antarctic Scientific Research Institute. Leningrad, 1965.		
	Transactions Soviet Antarctic Expeditions, vol. 44		
OB	"CRUISE 7"		
OB			
	1961: 20 Nov. to		
	1962: 04 May		

90-058 - Continued

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10 WDC-A Files 137.1 A-7

90-059 Atlantic Scientific Research Institute of Fishing Economy and Oceanography (ATLANIRO).
Originator's Coding Forms

MIKSUN 1963: 16 Dec. to
MIKSUN 1964: 04 Mar.

18 WDC-A Files 137.10 F-1

90-060 Pacific Ocean Institute of Scientific Investigations for Marine Fisheries and Oceanography (TINRO).
Originator's Coding Forms

PERVENETS 1959: 11 Jul.-16 Aug.

81 WDC-A Files 137.13 C-1

90-061 All Union Scientific Research Institute for Sea Fisheries and Oceanography.
Originator's Coding Forms

PERVENETS 1962: 02-16 Aug.

63 WDC-A Files 137.3 C-1

90-062 Polar Institute of Scientific Investigations

90-062 - Continued

for Marine Fisheries & Oceanography (PINRO).

Originator's Coding Forms

ZHEMCHUG 1962: 31 Jan.-17 Feb.

64 WDC-A Files 137.11 E-2

90-063 Polar Institute of Scientific Investigations for Marine Fisheries & Oceanography (PINRO).
Originator's Coding Forms

ZHEMCHUG 1962: 20-27 Nov.

27 WDC-A Files 137.11 E-3

90-064 Academy of Sciences USSR, Arctic and Antarctic Research Institute, Leningrad.
Originator's Coding Forms

MIKHAIL LOMONOSOV II 1958: 20-22 Aug.

14 WDC-A Files 137.7 A-1

90-065 Academy of Sciences USSR, Institute of Oceanology.
Originator's Coding Forms

VITYAZ 1961: 19 Jul.-06 Dec.
"CRUISE 34"

91 WDC-A Files 137.1 B-8

90-066
Academy of Sciences USSR, Institute of Oceanology.

Originator's Coding Forms

VITYAZ
"CRUISE 37"
1965: 13 May-10 Jul.

25 WDC-A Files 137.1 B-11

90-067 Atlantic Scientific Research Institute of Fishing Economy and Oceanography (ATLANTNIRO).

Originator's Coding Formis

OKHTA.	1964: 28 Sep. to
OKHTA	1965: 10 Jan.

243 WDC-A Files 137.10 G-1

900190 Wissenschaftlich Praktische Murman Expeditions,
Pre-1904. St. Petersburg, 1908.

Berichte, 1908

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1904: Jan.-Dec.

91 NODC Files

900203 Gosudarstvennyi Gidrologicheskii Institut, Leningrad. "Issledovaniia Morei SSSR (Explorations of the Seas of USSR)". 1936 & 1937.

fasc 24 & 25

State Oceanographic Institute. "Stor Fjord;

900203 - Continued

RUSSANOV	1931: Aug. to
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RUSSANOV	1933: Sep.
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BELUKA	1932: to
BELUKA	1933: Sep.

76 NODC Files

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vol. IV-V

LENIN	1932: Aug. -Oct.
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KNIPOVITCH	1933: Aug. -Sep.

317 NODC Files

900239 International Polar Year, 2d, 1932-1933. "Hydrological Observations." Leningrad and Moscow, 1936.

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KRASNOARMEITAS	1933:	28 Jul.-14 Sep.
DAL'NEVOSTOCHNIKA	1932:	13 Jul.-01 Oct.
LITKE	1932:	30 Jul.-06 Oct.
SOVIET	1932:	08-13 Aug.
SOOTCHAN	1932:	24 Jul.-23 Sep.

316 NODC Files

900253 State Oceanographic Institute. "Stor Fjord;

900253 - Continued

Hydrographical Notice" & "Hydrology of the Kara Sea". 1931.

Transactions, vol. 1, no.2-3

PERSEI 1924: 24 Jul.-10 Sep.
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PERSEI 1929: 08-30 Sep.

74 DNO Periodicals

900258

Gidrograficheskoe Upravlenie, Gidrometeorologicheskii Otdel. "Gidrometeorologicheskie zashchitlenia Gidrograficheskikh Ekspeditsii (Hydro-metrological Observations of the Hydrographic Expeditions)."

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ALEKSANDR KOVALYEVSKI 1922: Sep.-Oct.
ALEKSANDR KOVALYEVSKI 1923: Mar.-Dec.
ALEKSANDR KOVALYEVSKI 1924: Jan.-Dec.
ALEKSANDR KOVALYEVSKI 1925: Jan.-Dec.
ALEKSANDR KOVALYEVSKI 1926: May-Oct.
VALKIRIYA 1923: Jun.-Aug.
SAMARADOK 1923: Jun.-Aug.
SAMARADOK 1924: Sep.
INGOUL 1923: Feb.-Aug.
INGOUL 1924: Jun.-Sep.
SOLOMBALA 1924: Sep.
POLIARNY 1924: Jul.-Nov.
POLIARNY 1926: Nov.-Dec.

900258 - Continued

POLIARNY 1927: Jan.-Nov.
PREMIER MAI 1923: Nov.
PREMIER MAI 1924: Mar.-Dec.
PREMIER MAI 1925: Feb.-Nov.
PREMIER MAI 1926: Jan.-Dec.
PREMIER MAI 1927: Jun.-Nov.
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900350

International Council for the Exploration of the Sea. "Bulletin Hydrographique." Copenhagen, 1944.

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1939: 24 Jul.-12 Aug.
1938: 22 Jul.-16 Aug.

92 NODC Files

900406

Academy of Sciences USSR, Arctic and Antarctic Research Institute, Leningrad. "Deep Sea Hydrological Observations."

Transactions, vol. 1

SED0V 1930: 04 Aug.-04 Sep.

25 DNO Microfilm, Roll 68 no.44

90-407

Academy of Sciences USSR, Arctic and Antarctic Research Institute, Leningrad. 1935.

90-407 - Continued

Transactions, vol. 34

MALYGIN

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900408

Academy of Sciences USSR, Arctic and Antarctic Research Institute, Leningrad. 1935.

Transactions, vol. 39

LITKE

1934: Jul.-Aug.

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DLC G600 L4 v.39

900409

Academy of Sciences USSR, Arctic and Antarctic Research Institute, Leningrad. "Hydrological Deep Water Observations." 1936.

Transactions, vol. 64

SEDOV

1934: Jul.-Sep.

TAIMEER

1934: Jul.-Sep.

TSIRKUL

1934: Jul.-Sep.

131

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90-410

Azov and Black Sea Research Institute for Fisheries and Oceanography, Kerch. (AZCHERNIRO).

Originator's Coding Forms

VOROB'YEV

1965: 12 Apr.-31 Jul.

"CRUISE 5"

"INTERNATIONAL INDIAN

90-410 - Continued

OCEAN EXPEDITION"

102

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900412

Academy of Sciences USSR, Arctic and Antarctic Research Institute, Leningrad. "Data on the Hydrology of Matochkin Shar." 1936.

Transactions, vol. 44

KARBAS

1932: 12 Dec. to

KARBAS

1933: 05 Oct.

ARKTIK

1932: 12 Dec. to

ARKTIK

1933: 05 Oct.

70

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900539

Soviet Activities in the Arctic and Antarctic. "Data from Drift Station, SEVERNYY POLYUS NO. 3 and NO. 4."

Publication

NERPA

1954: 02-29 Aug.

2

NODC Files

900589

Academy of Sciences, Institute of Oceanography.

Tabular Data

VITYAZ

1958: 12 Oct. to

"CRUISE 29"

VITYAZ

1959: 11 Mar.

"CRUISE 29"

900589 - Continued

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207

900634

State Oceanographic Institute. "Observations on Hydrographic Sections during the International Geophysical Year ... at Stations off Tuapse, Black Sea."

Publication

MOREVED
KONTUR
GORIZONT
MGLA

1957: 30 Jul.-02 Oct.
1957: 22-23 Aug.
1957: 21-19 Nov.
1957: 23-24 Dec.

49

DNO GC681 01 Jul.-Dec.
1957

900635

State Oceanographic Institute. "Observations on Hydrographic Sections during the International Geophysical Year ... at Stations of Tuapse, Black Sea."

Publication

GORIZONT
MGLA

1958: 15 Jan.-24 Jun.
1958: 10-11 Mar.

56

DNO GC681 01 Jan.-Jun.
1958

900809

Gosudarstvennyi Gidrologicheskii Institut, Leningrad. "Issledovaniia Morei SSSR (Explorations of the Seas of USSR)." 1928.

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1890: Jul.
1898: Aug.

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VARIOUS SHIPS

1899: Aug.-Sep.
1900: Apr.-Aug.
1901: May-Sep.
1902: Jun.-Aug.
1903: Jul.-Aug.
1904: Jul.-Aug.
1906: Jul.-Sep.
1913: Jun.-Jul.
1921: Jul.-Sep.
1924: Jul.-Aug.
1925: Sep.

246

DNO GC452 R83

900813

State Oceanographic Institute. "Observations on Hydrographic Sections during the International Geophysical Year."

Tabular Data

OTKUPSHCHIKOV
TOPSEDA
POLIARNIK
PROFESSOR DERIUGIN
SRT-4441

1958: Jan.-Jun.
1958: Jan.-Jun.
1958: Jan.-Jun.
1958: Jan.-Jun.
1958: Jan.-Jun.

75

NODC Files

900814

State Oceanographic Institute. "Observations on Hydrographic Sections during the International Geophysical Year."

Tabular Data

OTKUPSHCHIKOV
TOZHEDA

1957: Jul.-Oct.
1957: Aug.-Sep.

900814 - Continued

POLYARNIK

1957: Nov.-Dec.

59

NODC Files

900829

Somov, M.M. "Observational Data of the Scientific Research Drifting Station" (Translation) Vol.1, Section 2; Vol. III, Section 8. American Meteorological Society. Air Force Cambridge Research Center.

Publication

DRIFTING STATION
(Russian)
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1950: 23 Apr. to
1951: 01 Apr.

396

NODC Files

900830

Academy of Sciences USSR, Arctic and Antarctic Scientific Research Institute, Leningrad.
IGY Reports of Antarctic Expedition. 1958.

Publication

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1956: 29 Feb.-08 Jun.

"CRUISE 1"

147

NODC Files (See also
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900861

Academy of Sciences, Institute of Oceanology.

Tabular Data

900861 - Continued

VITYAZ

1957: 30 Jun.-08 Oct.

"CRUISE 25"

135

WDC-A 137.1 B-2

900862

Academy of Sciences, Institute of Oceanology.

Tabular Data

VITYAZ

1957: 06 Sep. to

"CRUISE 26"

1958: 18 Feb.

VITYAZ

"CRUISE 26"

98

WDC-A Files 137.1 B-3

900863

Academy of Sciences, Institute of Oceanology.

Tabular Data

VITYAZ

1958: 22 Mar.-04 Jun.

"CRUISE 27"

154

WDC-A Files 137.1 B-

90-864

Academy of Sciences USSR, Institute of Oceanology.

Originator's Coding Forms

VITYAZ

1964: 5 Oct. to

"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

"CRUISE 36"

VITYAZ

1965: 6 Mar.

"INTERNATIONAL INDIAN

90-864 - Continued

OCEAN EXPEDITION"
"CRUISE 36"

14

WDC-A Files 137.1 B-10

90-865

Atlantic Scientific Research Institute for Fisheries and Oceanography (ATLANTNIRO).

Originator's Coding Forms

ZVEZDA

"CRUISE 14"
"GULF OF GUINEA
CRUISE"

1954: 24 Dec. to

ZVEZDA

"CRUISE 14"
"GULF OF GUINEA
CRUISE"

1965: 30 Mar.

209

WDC-A Files 137.10 A-4

900903

Marine Hydrophysical Institute.

Tabular Data

MIKHAIL LOMONOSOV
"CRUISE 1"

1957: 01 Nov.-01 Dec.

50

WDC-A Files 137.4 A-1

900904

Marine Hydrophysical Institute.

Tabular Data

MIKHAIL LOMONOSOV

1958: 02 Mar.-21 Apr.

900904 - Continued

"CRUISE 2"

82

WDC-A Files 137.4 A-2

900907

Hydrographical Service.

Tabular Data

EKVATOR

1958: 28 Mar.-11 Apr.

27

WDC-A Files 137.5 A-1

900910

Hydrographical Service.

Tabular Data

EKVATOR

1958: 05-28 Oct.

52

WDC-A Files 137.5 A-2

900940

Hydrometeorological Service, Murmansk Administration.

Originator's Coding Forms

POLYARNIK

"CRUISE 30"

"CRUISE 33"

1958: 20 Mar.-27 Oct.

116

WDC-A Files 137.1 A-2
& A-3

900942

Marine Hydrophysical Institute.

900942 - Continued

Originator's Coding Forms

MIKHAIL LOMONOSOV
"CRUISE 2"
1958: 21 Apr.-05 Jun.

WDC-A Files 137.4 A-2

900959

Polar Research Institute of Marine Fisheries and
Oceanography, Murmansk (PINRO).

Originator's Coding Forms

SEVASTOPOOL
"CRUISE 8"
"CRUISE 10"
1958: 25 Mar.-26 Oct.

234

WDC-A Files 137.11 D-1
& D-2

900960

Hydrometeorological Service & State Oceanographic
Institute.

Originator's Coding Forms

POLYARNIK
"CRUISE 25"
1957: 18 Jul.-09 Aug.

68

WDC-A Files 137.2 A-1

900961

Marine Hydrophysical Institute.

Originator's Coding Forms

MIKHAIL LOMONOSOV
"CRUISE 4"
1958: 01 Oct.-25 Dec.

900961 - Continued

118

WDC-A Files 137.4 A-4

90-990

Marine Hydrophysical Institute.

NODC Coding Forms

MIKHAIL LOMONOSOV
"CRUISE 13"
"EQUALANT I"
1963: 16 Mar.-04 Apr.

83

WDC-A Files 137.4 A-7

90-991

Atlantic Scientific Research Institute of Fishing
Economy and Oceanography (ATLANTIRO).

NODC Coding Forms

ZVEZDA
"CRUISE 11"
"EQUALANT I"
1963: 28 Mar.-10 May

85

WDC-A Files 137.10 A-1

90-992

Atlantic Scientific Research Institute of Fishing
Economy and Oceanography (ATLANTIRO).

NODC Coding Forms

OLONETS
"EQUALANT I"
1963: 29 Mar.-01 Apr.

33

WDC-A Files 137.10 B-1

90-993

Marine Hydrophysical Institute.

90-993 - Continued

NODC Coding Forms

MIKHAIL LOMONOSOV
"CRUISE 14"
"EQUALANT II"

1963: 03-16 Sep.

35

WDC-A Files 137.4 A-8

90-995

Atlantic Scientific Research Institute of Fishing
Economy and Oceanography (ATLANTIRO).

NODC Coding Forms

ZVEZDA
"CRUISE 12"
"EQUALANT II"

1963: 11 Sep.-28 Oct.

60

WDC-A Files 137.10 A-2

90-996

Marine Hydrophysical Institute.

Originator's Coding Forms

MIKHAIL LOMONOSOV
"CRUISE 15"
"EQUALANT III"

1964: 09 May-09 Jun.

16

WDC-A 137.4 A-9

90-997

Atlantic Scientific Research Institute of Fishing
Economy and Oceanography (ATLANTIRO).

Originator's Coding Forms

ZVEZDA

1964: 10 Jul.-01 Aug.

90-997 - Continued

"CRUISE 13"
"EQUALANT III"

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WDC-A 137.10 A-3

90-999

International Council for the Exploration of the
Sea. "Bulletin Hydrographique." Copenhagen,
1962.

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MIKHAIL LOMONOSOV

M. SOMOV

OTKUPSHCHIKOV

POLYARNIK

PROFESSOR RUDOVITZ

S. ANDREEV

SRT-4234

SRT-4379

TOPSEDA

1956: 16-18 Aug.
1956: 17 May-11 Jul.
1956: 08 Jan.-19 Dec.
1956: 21 Jan.-08 Dec.
1956: 03 Aug.-31 Oct.
1956: 13 Mar. 05 Aug.
1956: 16 May-05 Dec.
1956: 10-20 Nov.
1956: 25 Jun.-31 Dec.

NODC Files

910040

University of Cape Town, Dept. of Oceanography.

NODC Coding Forms

NATAL

"CRUISE 1"

"CRUISE 4"

"CRUISE 6"

"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

1962: 04 Apr.-22 Oct.

109

NODC Files

910044 - Continued

910041	University of Cape Town, Dept. of Oceanography.	
	NODC Coding Forms	
	AFRICANA II	1962: 19 Jun.-12 Jul.
	"CRUISE 263"	
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"	
23		NODC Files
910042	University of Cape Town, Dept. of Oceanography.	
	NODC Coding Forms	
	JOHN D. GILCHRIST	1962: 06 & 08 Dec.
	"CRUISE 46"	
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"	
9		NODC Files
910043	University of Cape Town. "Hydrographic and Plankton Observations." 1961.	
	Publication no.2	
	JOHN D. GILCHRIST	1959: 09 Aug. to
	JOHN D. GILCHRIST	1960: 29 Aug.
88		WIC-A Files (136.2 8-1)
910044	University of Cape Town, Dept. of Oceanography.	
	NODC Coding Forms	
	NATAL	1963: 11-27 Jan.
	"CRUISE 7"	
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"	
37		NODC Files
91-049	Dept. of Commerce and Industries, Division of Sea Fisheries.	
	NODC Coding Forms	
	AFRICANA II	1963: 03-14 Apr.
	"CRUISE 273"	
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"	
15		NODC Files
91-050	Dept. of Commerce and Industries, Division of Sea Fisheries.	
	NODC Coding Forms	
	AFRICANA II	1961: 14 Jun.-15 Jul.
	"CRUISE 251"	
	"INTERNATIONAL INDIAN OCEAN EXPEDITION"	
32		NODC Files
91005	University of Natal, Oceanographic Research Institute.	

910051 - Continued

NODC Coding Forms

LADY THERESA
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LADY THERESA
LADY THERESA

1961: May to
1962: to
1963: to
1964: Mar.

47

NODC Files

91-174

University of Cape Town, Dept. of Oceanography.

NODC Coding Forms

NATAL
"INTERNATIONAL INDIAN
OCEAN EXPEDITION"

1963: 22-24 Jul.

7

NODC Files

910850

Dept. of Commerce and Industries, Division of
Fisheries. "Twenty-Second Annual Report."

Publication

AFRICANA II

1950: 27 Mar.-18 Dec.

310

DNO SH315 S71 1950

910851

Dept. of Commerce and Industries, Division of
Fisheries. "Twenty-Fifth Annual Report."

Publication

AFRICANA II
AFRICANA II

1953: 28 Apr. to
1954: 23 Mar.

910851 - Continued

312

DNO SH315 S71 1953/1954

910852

Dept. of Commerce and Industries, Division of
Fisheries. "Twenty-Third Annual Report."

Publication

AFRICANA II

1951:

303

DNO SH315 S71 1951

910853

Dept. of Commerce and Industries, Division of
Fisheries. "Twenty-Fourth Annual Report."

Publication

AFRICANA II

1952: 24 Jan. to
1953: 29 Mar.

300

DNO SH315 S71 1952/1953

910854

Dept. of Commerce and Industries, Division of
Fisheries. "Twenty-Seventh Annual Report."

Publication

AFRICANA II

1955: 21 Apr. to
1956: 20 Mar.

AFRICANA II

342

DNO SH315 S71 1955/1956

910855

Dept. of Commerce and Industries, Division of
Fisheries. "Twenty-Eighth Annual Report."

910855 - Continued

Publication

AFRICANA II
AFRICANA II

1956: 13 Apr. to
1957: 12 Mar.

405

DNO SH315 S71 1956/1957

910856

Dept. of Commerce and Industries, Division of Fisheries. "Twenty-Ninth Annual Report."

Publication

AFRICANA II
AFRICANA II

1957: 09 Apr. to
1958: 14 Mar.

411

DNO SH315 S71 1957/1958

910858

Dept. of Commerce and Industries, Division of Fisheries. "Twenty-Sixth Annual Report."

Publication

AFRICANA II
AFRICANA II

1954: 21 Apr. to
1955: 17 Feb.

339

DNO SH315 S71 1954/1955

910901

University of Cape Town, Dept. of Oceanography.
"Hydrographic and Plankton Data collected in the Agulhas Current during IGY." 1960.

Publication no.1

NATAL
"CRUISE 1"

1958: 26 Feb.-23 Aug.

910901 - Continued

"CRUISE 2"
"CRUISE 3"
"IGY 1958"

84

DNO GC1 C23 no.1

910935

Dept. of Commerce and Industries, Division of Fisheries. "Thirtieth Annual Report."

Publication

AFRICANA II
AFRICANA II
KUNENE
KUNENE
SARDINOPS
SARDINOPS
TRACHURUS
TRACHURUS

1953: to
1959: to
1958: to
1959: to
1958: to
1959: to
1958: to
1959: to

433

NODC Files

91-935

Dept. of Commerce and Industries, Division of Fisheries.

NODC Coding Forms

AFRICANA II
"CRUISE 285"
"INTERNATIONAL INDIAN OCEAN EXPEDITION"

1964: 11-29 Mar.

21

WDC-A Files 136.1 A-5

93-001

Estacion de Investigaciones Marinas de Margarita,

93-001 - Continued

Punta de Piedra.

NDC Coding Forms

BIOMAR I
"B 10"
"B 11"
"B 12"
"B 13"

83

NODC Files

93-002

Estacion de Investigaciones Marinas de Margarita,
Punta de Piedra.

NDC Coding Forms

BIOMAR I
"B 13"
"B 14"
"B 15"
"B 16"

70

NODC Files

93-003

Estacion de Investigaciones Marinas de Margarita,
Punta de Piedra.

NDC Coding Forms

BIOMAR I
"B 22"
"B 23"
PUERTO SANTOS
"B 24"

1964: 26 Jun.-28 Jul.

1964: 29 Aug.-08 Sep.

93-003 - Continued

48

NODC Files

93-004

Estacion de Investigaciones Marinas de Margarita,
Punta de Piedra

NDC Coding Forms

BIOMAR I
"B 26"
BIOMAR I
"B 27"
"B 28"
"B 29"
"B 30"

1964: 17 Jun. to

1965: 31 May

34

NODC Files

93-005

Estacion de Investigaciones Marinas de Margarita,
Punta de Piedra.

NDC Coding Forms

BIOMAR I
"B 31"
"B 32"
"B 33"

1965: 09 Aug.-09 Oct.

40

NODC Files

95-001

National Committee for IGY, Subcommittee for Ocean-
ography.

Tabular Reports

MINER

1957: 06 Jun.-18 Sep.

95-001 - Continued

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"CRUISE 2"

33

NODC Files

95-002

National Committee for IGY, Subcommittee for Oceanography.

Tabular Report

SPASILAC
"CRUISE 3"
SPASILAC
"CRUISE 4"
"CRUISE 5"
"CRUISE 6"

1957: 08-24 Dec.
1958: 13 Mar.-29 Dec.

75

NODC Files

950626

Biološko-Okeanografski Institut, Spalato.

Acta Adriatica, vol. 7, no.12

PREVOVNİK
PREVODNIK
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1947: Oct. to
1948: to
1949: to
1950: to
1951: Feb.
1947: to
1948: to
1949: to
1950: to
1951:

462

DNO QH7 A52 v.7 no.12

950710

Institut za Oceanografiju i Ribaštvo, Spalato.
1956.

Izjescia-Reports, vol. 1 no.3

HVAR 1948: 26 Feb. to
HVAR 1949: 01 Apr.

306

DNO SH293 Y3H9 v.1 no.3

GH-001
Fisheries Institute.

NODC Coding Forms

SAKUMO 1964: 19 Feb.-11 Dec.
KOKOTE 1964: 19 Feb.-11 Dec.

24

NODC Files

GH-002
Fisheries Institute.

NODC Coding Forms

SAKUMO 1964: 10 Jan.-12 Dec.
KOKOTE 1964: 10 Jan.-12 Dec.

32

NODC Files

GH-003
Fisheries Institute.

NODC Coding Forms

SAKUMO

1964: 24 Mar.-10 Dec.

GH-003 - Continued

16	NODC Files	IC0991	Centre de Recherches Oceanographiques de Cote d'Ivoire.
GH-990	Fisheries Inspectorate Unit.		
	NODC Coding Forms		NODC Coding Forms
ACHIMOTA	1964: 07 Mar.-10 Nov.	REINE POKOU	1963: 01-08 Aug.
"EQUALANT III"		"EQUALANT II"	
7	NODC Files	21	NODC Files
IC-001		IC0992	Centre de Recherches Oceanographiques de Cote d'Ivoire.
Centre de Recherches Oceanographiques de Cote d'Ivoire. "Resultats Hydrologiques."			
Publication			NODC Coding Forms
CORYPHENE	1956: 03 Aug. to	REINE POKOU	1964: 02-06 Mar.
CORYPHENE	1957: to	"EQUALANT III"	
CORYPHENE	1958: to	9	WDCA-Files
CORYPHENE	1959: 29 Dec.		
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1963: 02 Sep.-12 Dec.

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SECTION 2

SHIP INDEX

In this Section ships' names are listed alphabetically, together with the corresponding year(s) of observations and NODC Reference Numbers. (For an explanation of the latter and further information, see Section 1).

It should be noted that some of the older data in the NODC file are not referenced to ship's name. Thus, data from multiship source documents may not be referenced in this Section. Sources in which the ship's name is unknown are also omitted.

In this Index the following abbreviations have been used to indicate country of origin for ships having duplicate names.

(Finl.)	Finland
(Germ.)	Germany
(Icel.)	Iceland
(Mex.)	Mexico
(Neth.)	Netherlands
(Nor.)	Norway
(Sov. U.)	Soviet Union
(Swed.)	Sweden
(U.K.)	United Kingdom
(U.S.)	United States

Lightvessels have the abbreviation LV appended to their name.

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SECTION 4

GEOGRAPHICAL INDEX

In this Section, NODC Reference Numbers are given for each Marsden square (see Appendix B) in which there are one or more oceanographic stations. (For an explanation of NODC Reference Numbers and further information, see Section 1.)

The entries in this Section were manually prepared from computer listings of the data and apply only to sources listed in Section 1. At the time of compilation, the magnetic tape data files were undergoing reprocessing and were not available for preparation of this Index. However, NODC Publication C-3 shows a computer-prepared geographic distribution of stations in the magnetic tape files.

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080691, 080692, 310625,
31-707, 740035, 740038

MS 449

060044, 080001, 080003,
08-006, 08-007, 08-008,
08-012, 08-013, 08-014,
08-030, 08-032, 08-033,
08-041, 080691, 080692,
080695, 260042, 31-365,

MS 449 - Continued

310612, 740035, 740036,
740038, 740040, 740041,
900005

MS 450

080001, 080003, 08-005,
08-008, 08-012, 08-013,
08-030, 08-032, 08-041,
080237, 080691, 260042,
310612, 740035, 740036,
740040, 740041, 900005,
90-006

MS 451

20-003, 200879, 31-187,
31-484, 310561, 900005

MS 452

310650, 31-790, 310802,
49-709

MS 453

310002, 31-790, 310802

MS 454

310678, 310802, 49-709,
900005

MS 455

31-790, 310802

MS 456

31-790, 740038

MS 457

31-790, 310802, 740038

MS 458
31-790

MS 459
740702

MS 460

26-014, 310591, 740038,
740702, 900005

MS 461

31-484, 610938, 740038,
740039, 740702

MS 462

260009, 26-014, 31-484,
310562, 610938, 740038,
740040, 740702, 900830,
900862

MS 463

09-008, 090745, 26-014,
31-790, 610938, 740038,
740702, 900005, 900830

MS 464

09-005, 090745, 090798,
090844, 090892, 740038,
740040, 740702, 900005

MS 465

09-008, 09-039, 090397,
090398, 090594, 090745,
090785, 090798, 090843,
090880, 090890, 090891,
090892, 090893, 090923,
350712, 740038, 740040,
740227

MS 466	09-002, 09-007, 31-181, 31-484, 318009, 350712, 740038, 900830	MS 476	310834, 740039, 740040, 900004, 910040, 910041, 91-049	MS 483	06-044, 08-010, 080697, 31-707, 49-710, 580006, 740035, 740036, 740037, 740038, 740039, 740040, 740702, 90-006, 90-059
MS 467	09-002, 09-007, 318009, 740038, 900830	MS 477	060049, 310834, 740038, 740039, 740040, 90-004, 90-029, 910040, 91-049, 91-936	MS 484	310561, 31-707, 740035, 740036, 740037, 740038, 740039, 740040, 740702, 90-006
MS 468	09-002, 09-007, 090399, 318009, 740038, 740040, 740227, 740702, 900830	MS 478	080692, 740035, 740037, 740038, 740039, 740040, 740041, 900004, 90-029, 90-057, 91-936	MS 485	08-012, 08-030, 080696, 080698, 080936, 20-002, 31-187, 31-487, 310561, 310652, 31-707, 740035, 740036, 740037, 740038, 740039, 740040, 740041, 740702, 900005, 90-006, 90-059
MS 469	09-002, 740038, 740040, 740227	MS 479	080692, 740037, 740038, 740040	MS 486	08-008, 08-012, 08-013, 08-030, 08-032, 08-033, 080237, 080695, 080696, 080698, 08-936, 20-002, 31-187, 31-484, 31-561, 31-707, 740035, 740036, 740037, 740038, 740039, 740040, 740041, 740702, 900005, 90-006, 90-029
MS 470	49-710, 740038, 740227, 740702, 900004	MS 480	060004, 060210, 340214, 49-710, 580006, 740037, 740038, 740040, 90-006	MS 487	31-187, 31-484, 31-707, 31-790, 740038, 740039, 740702, 900005
MS 471	740227	MS 481	060210, 31-677, 340214, 49-710, 580006, 740037, 740038, 740040, 740702, 90-006		
MS 472	31-181, 31-577, 350712, 740227, 900830	MS 482	060210, 080693, 310561, 31-677, 31-707, 49-710, 580006, 740036, 740037, 740038, 740039, 740040, 740702, 90-006		
MS 473	31-372, 350579, 900830				
MS 474	740040, 91-041				
MS 475	310834, 740039, 740040, 740702, 900004, 910041				

MS 488 31-707, 31-790, 740038, 740702	MS 496 31-484, 31-707, 740038, 740040, 740702, 900005	MS 506 740038, 740040, 740041, 740702, 900004, 900830
MS 489 310650, 31-707, 31-790, 740039	MS 497 31-181, 31-484, 310591, 740038, 740039, 740040, 740702	MS 507 350712, 740038, 740040, 740041, 740702, 900830
MS 490 310678, 31-707, 31-790, 740038, 900005	MS 498 310591, 740040, 740702	MS 508 350712, 740038, 740040, 900004, 900830
MS 491 31-484, 31-707, 31-790, 740038	MS 499 26-014, 31-181, 31-484, 310533, 310590, 310613, 31-790, 740038, 740040, 900005, 900830	MS 509 31-184, 740038, 740040, 740702, 900004
MS 492 31-707	MS 500 31-484, 310590, 31-790, 740038, 740040, 740277, 740702, 900830	MS 510 740040, 740041, 740227, 740702, 900004
MS 493 31-707, 31-790, 740038, 900005	MS 501 350712, 740040	MS 511 740038, 740039, 740040, 740041, 900004
MS 494 31-484, 310672, 31-707, 31-790, 740038, 900005	MS 502 31-484, 350712, 740038	MS 512 310834, 740038, 740039, 740040
MS 495 31-484, 31-672, 31-707, 31-790, 740038, 740702, 900005	MS 503 740038	MS 513 49-710, 580812, 740039, 740040, 740041, 900004, 90-029
	MS 504 350712, 740040, 900830	MS 514 49-710, 740038, 740039, 740040, 740041, 900004, 90-006, 90-029, 90-057
	MS 505 740040, 740227, 900830	

MS 525 - Continued

MS 515	49-710, 580006, 740035, 740037, 740040, 90-006	MS 521	06-210, 080002, 08-013, 08-029, 08-030, 08-032, 08-035, 080695, 080697, 20-002, 31-187, 310504, 310593, 310610, 31-707, 740035, 740036, 740037, 740038, 740039, 740040, 74-047, 900005, 90-006, 90-059	MS 526	31-484, 310672, 310678, 31-707, 31-790, 740039, 740702, 900005
MS 516	310504, 310593, 31-677, 580006, 740038, 740039, 90-006	MS 522	08-008, 08-013, 08-029, 08-030, 08-032, 08-033, 08-035, 080695, 080696, 080698, 20-002, 31-187, 31-365, 31-484, 310504, 310593, 310611, 310612, 310652, 31-707, 740035, 740036, 740037, 740038, 740039, 740040, 740047, 900005	MS 527	31-672, 31-678, 31-707, 31-790, 740038, 740039, 740040, 740702, 900005
MS 517	08-009, 08-010, 08-035, 080695, 310561, 310593, 310610, 310612, 31-677, 740037, 740038, 740039, 740040, 90-006	MS 523	08-029, 080695, 31-187, 31-365, 310593, 310652, 31-707, 740037, 740038, 740039, 740040, 740702	MS 528	310678, 31-707, 31-790, 740039, 740040, 740702, 900005
MS 518	06-210, 08-009, 08-035, 080693, 080697, 31-677, 31-707, 340214, 740036, 740038, 740039, 740040, 90-006	MS 524	08-029, 310593, 310652, 31-677, 31-707, 740037, 740038, 740039, 740040	MS 529	310678, 31-707, 31-790, 740039, 740040, 740702, 900005
MS 519	060044, 06-210, 08-009, 08-010, 08-029, 080695, 080697, 31-561, 31-707, 340214, 740038, 90-006	MS 525	31-484, 310593, 310650, 310678, 31-707, 31-790, 740037, 740038, 740039,	MS 530	310678, 31-707, 31-790, 740039, 740040, 740702
MS 520	060044, 080002, 08-010, 08-035, 080695, 080697, 310561, 31-677, 31-707, 340214, 740035, 740037, 740038, 740039, 740040, 90-006, 90-059	MS 526	31-484, 310593, 310652, 31-677, 31-707, 740037, 740038, 740039, 740040	MS 531	310678, 31-707, 740038, 740039, 740040, 740702, 900005
		MS 527	31-181, 310678, 31-707, 490311, 740038, 740039, 740040, 900005	MS 532	31-181, 310678, 31-707, 490311, 740038, 740039, 740040, 900005
		MS 528	310591, 310610, 310678,	MS 533	310591, 310610, 310678,

MS 533 - Continued	MS 541 - Continued	MS 549
490311, 740036, 900005, 90-029	900830	310592, 49-710, 580006, 740039, 740041, 90-006, 90-029, 90-057
MS 534	MS 542	MS 550
310591, 310613, 310649, 310651, 310652, 61-950, 740036, 740040, 740227, 740702, 900005	310592, 580812, 740041, 740227, 740702, 90-006, 90-057, 900830	310610, 580006, 740038, 740039, 740040, 740041, 90-006, 90-029, 90-057, 90-058
MS 535	MS 543	MS 551
310562, 310613, 740038, 740040, 740227, 900005, 90-006, 90-029, 900830	580812, 740041, 740227, 740702, 90-057, 900830	31-677, 580006, 740038, 740039, 740040, 740041, 90-006
MS 536	MS 544	MS 552
580812, 90-006, 90-029, 900830	49-710, 580812, 740038, 740041, 740227, 90-006, 90-057	310504
MS 537	MS 545	MS 553
350712, 740040, 740227, 900005, 900830	49-710, 580006, 740038, 740041, 740227, 90-006, 90-057	080693, 080695, 080697, 310561, 310612, 580006, 90-006
MS 538	MS 546	MS 554
740038, 740040, 900830	49-710, 580006, 740038, 740041, 740227, 90-006, 90-057	060044, 08-029, 08-035, 080693, 080695, 080697, 080914, 310561, 310593, 310612
MS 539	MS 547	MS 555
740038, 740040, 740227, 900005, 900830	49-710, 580006, 580812, 740038, 740039, 740041, 740227, 90-006, 90-029, 90-057, 90-058	060044, 08-009, 08-029, 08-035, 080693, 080695, 080697, 310612
MS 540	MS 548	MS 556
310533, 310563, 310590, 310613, 740038, 740040, 740227, 900005, 90-006, 900830	310592, 49-710, 580006, 580812, 740039, 90-006, 90-029, 90-057	060044, 080002, 08-009, 08-029, 080695, 080697,
MS 541		
310563, 310613, 580812, 740040, 740041, 90-006,		

MS 556 - Continued

310561, 310593, 310612	MS 569	31-150, 31-194, 310590, 310591, 310611, 310652, 310867, 31-880, 490311, 740039, 740040	MS 903 31-805
MS 557 310561	MS 570	31-150, 31-194, 31-409, 310562, 310563, 310590, 310591, 310592, 310610, 310611, 310613, 310651, 310674, 310867, 31-880, 310951, 31-986, 740036, 740040	MS 904 31-805
MS 560 740037	MS 571	31-150, 31-194, 31-409, 310533, 310560, 310562, 310563, 310590, 310591, 310592, 310598, 310610, 310611, 310613, 310651, 310868, 31-880, 310951, 31-986, 90-029	MS 905 31-805
MS 561 310650, 310652, 310672, 31-707	MS 572	31-484	MS 906 31-805
MS 562 31065 310652, 310672, 31-707	MS 585	310610	MS 907 18-053, 18-073, 31-174, 310375, 310376, 31-805, 31-807
MS 563 310672, 31-707, 580812	MS 586	90-057, 90-058	MS 908 18-182
MS 564 740039	MS 901	31-296, 31-805	MS 909 18-006, 18-142, 310431
MS 565 310868, 580812	MS 902	31-296, 31-805	MS 910 18-006, 18-142, 310431, 31-978
MS 566 310672, 740039	MS 911		MS 911 31-978, 90-539
MS 567 31-194, 310533, 310672	MS 912		MS 912 310911, 31-978
MS 568 31-194, 310504, 310533, 310560, 310563, 310568, 310590, 310591, 310610, 310611, 310652, 310672, 310868, 49-311	MS 913		MS 913 310911
	MS 914		MS 914 310911

MS 915 310364, 31-483, 310911	MS 927 31-777, 900238	MS 933 31-861, 58-046, 580404
MS 916 31-483, 310911, 31-978, 90-539, 900829	MS 928 31-777, 90-406	MS 934 310366, 58-046, 580404
MS 917 31-978, 900829	MS 929 31-777, 311165, 900203	MS 935 31-296, 310366, 310965, 340762, 580033, 580034, 580045, 58-046, 580259, 580404, 58-720, 74-700, 740709
MS 918 31-978	MS 930 31-777, 90-407	MS 936 31-296, 310366, 310445, 31-829, 310965, 580033, 580045, 580259
MS 919 490003	MS 931 90-407	
	MS 932 31-861, 58-046, 580404	

APPENDIX A

NODC COUNTRY CODES

SEQUENCE ALPHABETIC BY COUNTRY

<u>COUNTRY</u>	<u>CODE</u>	<u>COUNTRY</u>	<u>CODE</u>
ARGENTINA	08	IVORY COAST	IC
AUSTRALIA	09	JAPAN	49
AUSTRIA	10	KOREA, SOUTH	24
BELGIUM	11	MALAGASY REPUBLIC	55
BRAZIL	14	MEXICO	57
CANADA	18	NETHERLANDS	64
CHILE	20	NEW CALEDONIA	59
CHINA, REPUBLIC OF	21	NEW ZEALAND	61
COLOMBIA	22	NIGERIA	NI
CONGO (BRAZZAVILLE)	RC	NORWAY	58
DENMARK	26	PERU	65
FINLAND	34	POLAND	67
FRANCE	35	PORTUGAL	68
GERMANY, FEDERAL REPUBLIC OF	06	SOUTH AFRICA	91
GERMANY, DEMOCRATIC REPUBLIC OF	06	SPAIN	29
GHANA	GH	SWEDEN	77
GREECE	36	THAILAND	86
ICELAND	46	UNION OF SOVIET SOCIALIST REPUBLICS	90
INDIA	41	UNITED ARAB REPUBLIC	27
INDONESIA	42	UNITED KINGDOM	74
IRELAND	45	UNITED STATES	31
ISRAEL	47	VENEZUELA	93
ITALY	48	YUGOSLAVIA	95

APPENDIX B

MARSDEN SQUARES

In the Northern Hemisphere, Marsden squares (10-degree squares) have been sequentially numbered in a westerly progression beginning at the Equator and the Greenwich Meridian; 001 is between 0 degrees - 10 degrees N and 0 degrees - 10 degrees W. The consecutive sequence continues by 10-degree bands to the north and ends with 288 at latitude 80 degrees N. Numbering for the 10-degree band 80 degrees - 90 degrees N is according to the same scheme; it begins with 901 and ends with 936. In the Southern Hemisphere, the numbering begins with 300 at the Equator and Greenwich Meridian and runs in a consecutive sequence westward. The numbering ends with 623 at latitude 90 degrees S.

Figure 1 shows a map of the world outlining the Marsden squares. Each 10-degree square is subdivided into one hundred 1-degree squares, which are identified as 00 through 99 and arranged according to the pattern shown in Figure 2.

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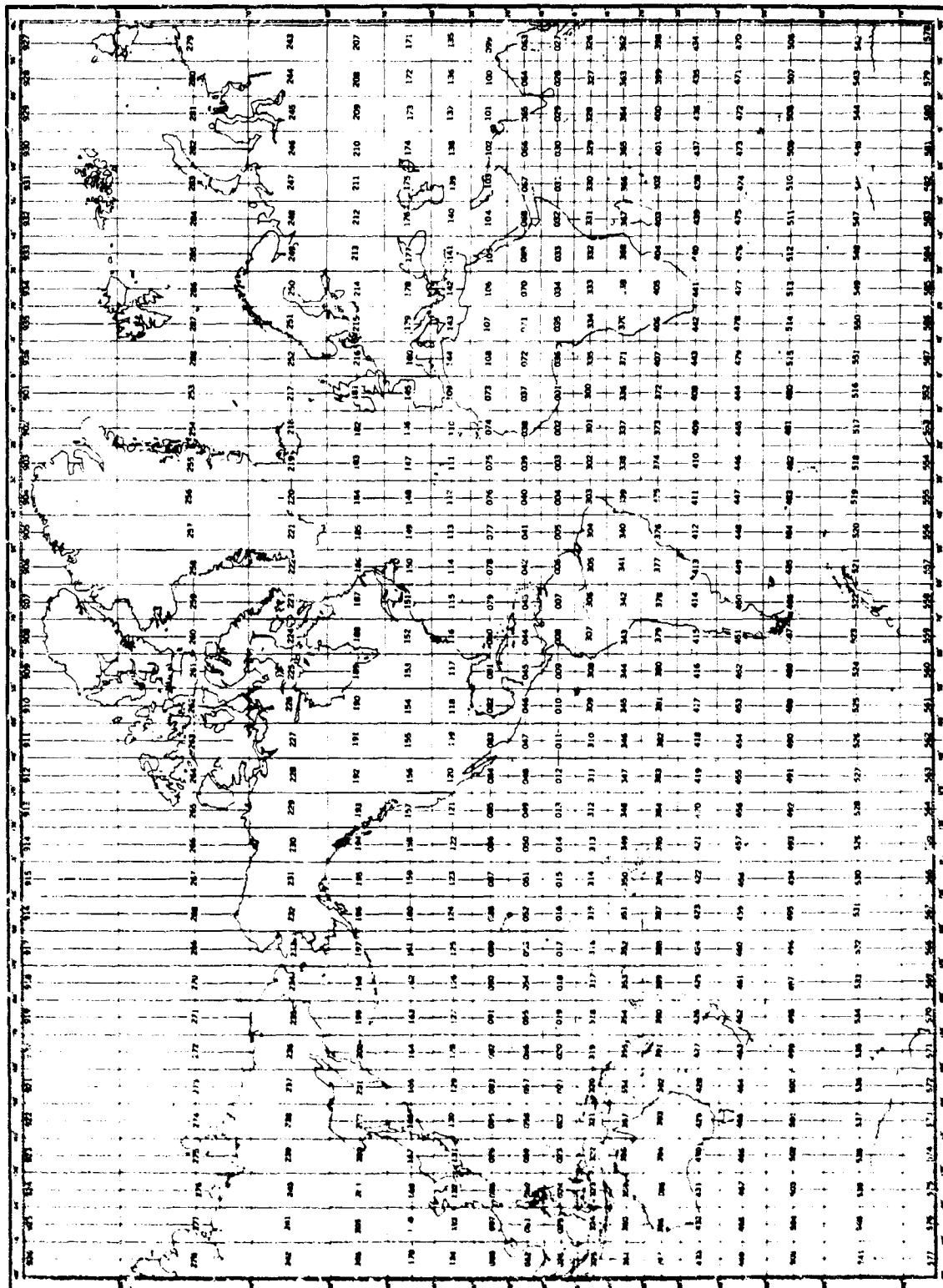


FIG. 1 MARSDEN SQUARE CHART

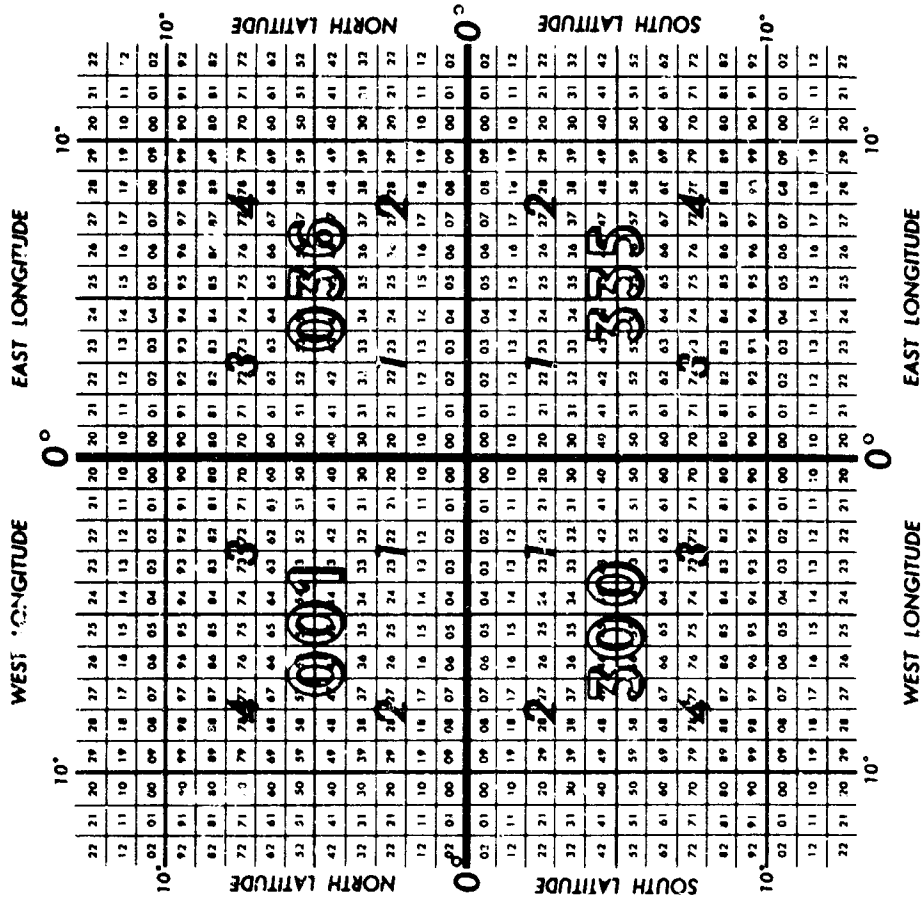


FIG. 2. ONE DEGREE DIVISIONS OF MARS DEN SQUARES